Yahoo Group Archive: RA1778

Yahoo Group summary: RACAL RA1778 Owners Group

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2018. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2010-08-31 through 2017-06-17

Source WARC: ra1778.C36hpZH.warc.gz

Source item: https://archive.org/details/yahoo-groups-2018-09-06T00-11-55Z-449efb

Messages included in this PDF: 216

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

1. New file uploaded to RA1778

Yahoo group: RA1778
Date: 2010-08-31 16:42:40 UTC
From: RA1778@yahoogroups.com
Topic: 1 Message: 1

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the RA1778
group.

File : /RA1778 Operators Manual.PDF
Uploaded by : znww5 <d.bobbett@...>
Description : RA1778 Operators Manual in pdf format

You can access this file at the URL:
http://groups.yahoo.com/group/RA1778/files/RA1778%20Operators%20Manual.PDF

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles

Regards,

znww5 <d.bobbett@...>

2. Final version of RA1778 Ops Manual added to files section

Yahoo group: RA1778
Date: 2010-09-10 09:34:27 UTC
From: znww5
Topic: 2 Message: 2

After a lot of tinkering with my ageing scanner and some help from Sean, G4UCJ the final version of the RA1778 Operations Manual can be found in the files section.

73 de David, G4IRQ

3. RA1778 Maintenance Manual Part 1

Yahoo group: RA1778
Date: 2010-09-13 23:53:36 UTC
From: znww5
Topic: 3 Message: 3

I have just posted the constituent chapters of Part 1 of the 1778 Maintenance Manual. These include colour scans of the PCB layouts and the annotated schematics. The individual parts will be rolled up into a single file at some point, but for now it seemed safer to store them in more than one place!

4. Corrections and Updates

Yahoo group: RA1778
Date: 2010-09-14 07:20:48 UTC
From: znww5
Topic: 4 Message: 4

If any group members have any corrections or updates for the manuals, please feel free to send them in. I will try and compile them into one file which can go in the files section.

73 de David, G4IRQ

5. Maintenance Manual Part 1 - Now available as a single 29Mb file download.

Yahoo group: RA1778
Date: 2010-09-14 17:31:26 UTC
From: znww5
Topic: 5 Message: 5

Please see the Links section for a single download of this file.

Many thanks to Sean, G4UCJ for hosting this on his web site.

6. Re: Maintenance Manual Part 1 - Now available as a single 29Mb file download.

Yahoo group: RA1778
Date: 2010-09-14 19:45:40 UTC
From: ik3glf
Topic: 5 Message: 6

There is a mistake in the link for the maintenence manual.
The correct link should read:

http://www.hfradio.org.uk/RA1778_Maintenance_Manual.pdf

73
Nick
IK3GLF

--- In RA1778@yahoogroups.com, "znww5" <d.bobbett@...> wrote:
>
> Please see the Links section for a single download of this file.
>
> Many thanks to Sean, G4UCJ for hosting this on his web site.
>

7. Re: Maintenance Manual Part 1 - Now available as a single 29Mb file download.

Yahoo group: RA1778
Date: 2010-09-14 20:34:39 UTC
From: znww5
Topic: 5 Message: 7

Thanks for that Nick - I have corrected the link and it now works OK. It's been a long day!

73 de David, G4IRQ

--- In RA1778@yahoogroups.com, "ik3glf" <ik3glf@...> wrote:
>
> There is a mistake in the link for the maintenence manual.
> The correct link should read:
>
> http://www.hfradio.org.uk/RA1778_Maintenance_Manual.pdf
>
> 73
> Nick
> IK3GLF
>
>
> --- In RA1778@yahoogroups.com, "znww5" <d.bobbett@> wrote:
> >
> > Please see the Links section for a single download of this file.
> >
> > Many thanks to Sean, G4UCJ for hosting this on his web site.
> >
>

8. Re: Maintenance Manual Part 1 - Now available as a single 29Mb file download.

Yahoo group: RA1778
Date: 2010-09-14 21:13:56 UTC
From: ik3glf
Topic: 5 Message: 8

David,
just let me use the post to thanks for the job of scanning and publishing the manual. It is a very important piece of informations for us lover of this fine equipment and will be important to help us owners to keep it in perfect conditions.

73

Nick
IK3GLF

--- In RA1778@yahoogroups.com, "znww5" <d.bobbett@...> wrote:
>
> Thanks for that Nick - I have corrected the link and it now works OK. It's been a long day!
>
> 73 de David, G4IRQ
>
>
>
> --- In RA1778@yahoogroups.com, "ik3glf" <ik3glf@> wrote:
> >
> > There is a mistake in the link for the maintenence manual.
> > The correct link should read:
> >
> > http://www.hfradio.org.uk/RA1778_Maintenance_Manual.pdf
> >
> > 73
> > Nick
> > IK3GLF
> >
> >
> > --- In RA1778@yahoogroups.com, "znww5" <d.bobbett@> wrote:
> > >
> > > Please see the Links section for a single download of this file.
> > >
> > > Many thanks to Sean, G4UCJ for hosting this on his web site.
> > >
> > >
>

9. Re: [RA1778] Re: Maintenance Manual Part 1 - Now available as a single 29Mb file download.

Yahoo group: RA1778
Date: 2010-09-15 07:05:53 UTC
From: David Bobbett
Topic: 5 Message: 9

Hi Nick,

Thanks very much for the kind words! I will be starting work on Part 2 of the Maintenance Manual very soon - sadly, it will only be black and white as I do not have a copy of the colour version.

73 de David, G4IRQ

On 14/09/2010 22:13, ik3glf wrote:
>
> David,
> just let me use the post to thanks for the job of scanning and
> publishing the manual. It is a very important piece of informations
> for us lover of this fine equipment and will be important to help us
> owners to keep it in perfect conditions.
>
> 73
>
> Nick
> IK3GLF
>
> --- In RA1778@yahoogroups.com <mailto:RA1778%40yahoogroups.com>,
> "znww5" <d.bobbett@...> wrote:
> >
> > Thanks for that Nick - I have corrected the link and it now works
> OK. It's been a long day!
> >
> > 73 de David, G4IRQ
> >
> >
> >
> > --- In RA1778@yahoogroups.com <mailto:RA1778%40yahoogroups.com>,
> "ik3glf" <ik3glf@> wrote:
> > >
> > > There is a mistake in the link for the maintenence manual.
> > > The correct link should read:
> > >
> > > http://www.hfradio.org.uk/RA1778_Maintenance_Manual.pdf
> > >
> > > 73
> > > Nick
> > > IK3GLF
> > >
> > >

> > > --- In RA1778@yahoogroups.com <mailto:RA1778%40yahoogroups.com>,
> "znww5" <d.bobbett@> wrote:
> > > >
> > > > Please see the Links section for a single download of this file.
> > > >
> > > > Many thanks to Sean, G4UCJ for hosting this on his web site.
> > > >
> > >
> >
>
>

10. Re: Maintenance Manual Part 1 - Now available as a single 29Mb file download.

Yahoo group: RA1778
Date: 2010-09-15 07:25:02 UTC
From: zilbershatz
Topic: 5 Message: 10

```
--- In RA1778@yahoogroups.com, David Bobbett <d.bobbett@...> wrote:
>
> Hi Nick,
>
> Thanks very much for the kind words! I will be starting work on Part 2
> of the Maintenance Manual very soon - sadly, it will only be black and
> white as I do not have a copy of the colour version.
>
>
> 73 de David, G4IRQ
>
>
>
> On 14/09/2010 22:13, ik3glf wrote:
> >
> > David,
> > just let me use the post to thanks for the job of scanning and
> > publishing the manual. It is a very important piece of informations
> > for us lover of this fine equipment and will be important to help us
> > owners to keep it in perfect conditions.
> >
> > 73
> >
> > Nick
> > IK3GLF
> >
> > --- In RA1778@yahoogroups.com <mailto:RA1778%40yahoogroups.com>,
> > "znww5" <d.bobbett@> wrote:
> > >
> > > Thanks for that Nick - I have corrected the link and it now works
> > OK. It's been a long day!
> > >
> > > 73 de David, G4IRQ
> > >
> > >
> > >
> > > --- In RA1778@yahoogroups.com <mailto:RA1778%40yahoogroups.com>,
> > "ik3glf" <ik3glf@> wrote:
> > > >
> > > > There is a mistake in the link for the maintenence manual.
> > > > The correct link should read:
> > > >
> > > > http://www.hfradio.org.uk/RA1778_Maintenance_Manual.pdf
> > > >
```

> > > > 73
> > > > Nick
> > > > IK3GLF
> > > >
> > > >
> > > > --- In RA1778@yahoogroups.com <mailto:RA1778%40yahoogroups.com>,
> > "znww5" <d.bobbett@> wrote:
> > > > >
> > > > > Please see the Links section for a single download of this file.
> > > > >
> > > > > Many thanks to Sean, G4UCJ for hosting this on his web site.
> > > > >
> > > >
> > >
> >
> >
>Great work !!!
Thank you very much for your blessed work it is super!!
Now we know what's inside...

11. Re: [RA1778] Re: Maintenance Manual Part 1 - Now available as a single 29Mb file download.

Yahoo group: RA1778
Date: 2010-09-15 09:35:00 UTC
From: casy_ch@tbwil.ch
Topic: 5 Message: 11

Hi David

I do appreciate your work very much. Also better a b/w copy instead of no copy, isn't it ?

Cheers and 73 de Jean-Claude, Switzerland

----- Original Message -----
From: zilbershatz
To: RA1778@yahoogroups.com
Sent: Wednesday, September 15, 2010 9:25 AM
Subject: [RA1778] Re: Maintenance Manual Part 1 - Now available as a single 29Mb file download.

--- In RA1778@yahoogroups.com, David Bobbett <d.bobbett@...> wrote:
>
> Hi Nick,
>
> Thanks very much for the kind words! I will be starting work on Part 2
> of the Maintenance Manual very soon - sadly, it will only be black and
> white as I do not have a copy of the colour version.
>
>
> 73 de David, G4IRQ
>
>
>
> On 14/09/2010 22:13, ik3glf wrote:
> >
> > David,
> > just let me use the post to thanks for the job of scanning and
> > publishing the manual. It is a very important piece of informations
> > for us lover of this fine equipment and will be important to help us
> > owners to keep it in perfect conditions.
> >
> > 73
> >
> > Nick
> > IK3GLF
> >
> > --- In RA1778@yahoogroups.com <mailto:RA1778%40yahoogroups.com>,
> > "znww5" <d.bobbett@> wrote:
> > >
> > > Thanks for that Nick - I have corrected the link and it now works
> > OK. It's been a long day!
> > >

> > > 73 de David, G4IRQ
> > >
> > >
> > >
> > > --- In RA1778@yahoogroups.com <mailto:RA1778%40yahoogroups.com>,
> > "ik3glf" <ik3glf@> wrote:
> > > >
> > > > There is a mistake in the link for the maintenence manual.
> > > > The correct link should read:
> > > >
> > > > http://www.hfradio.org.uk/RA1778_Maintenance_Manual.pdf
> > > >
> > > > 73
> > > > Nick
> > > > IK3GLF
> > > >
> > > >
> > > > --- In RA1778@yahoogroups.com <mailto:RA1778%40yahoogroups.com>,
> > "znww5" <d.bobbett@> wrote:
> > > > >
> > > > > Please see the Links section for a single download of this file.
> > > > >
> > > > > Many thanks to Sean, G4UCJ for hosting this on his web site.
> > > > >
> > > >
> > > >
> > >
> >
> >
>Great work !!!
Thank you very much for your blessed work it is super!!
Now we know what's inside...

12. Re: [RA1778] Re: Maintenance Manual Part 1 - Now available as a single 29Mb file download.

Yahoo group: RA1778
Date: 2010-09-15 13:20:12 UTC
From: John Ellerton
Topic: 5 Message: 12

Hallo everyone.
My name is John Ellerton, my call is G3NCN, and I was the lead engineer on the design of the RA1770 series and the RA1780 series - particularly the signal path, but not the synthesiser and digital aspects. I also had a major hand in the design of the erganomics and power systems.
However it must be remembered that this all happened some 40 years ago, and memory is the only tool I have, plus a RA1778 and a pair of handbooks, currently on loan to another amateur.
Some of the diagrams are in colour, so I may be able to make up some of the missing colour diagrams. When I recover my handbooks I will be able to tell you what is there.

Anyway, here I am, at the suggestion of David, G4IRQ, and whatever help I can offer, I will.

73 John G3NCN

13. Final Part of RA1778 Maintenance Manual now Available

Yahoo group: RA1778
Date: 2010-09-15 17:48:11 UTC
From: znww5
Topic: 13 Message: 13

Today, I have finished tidying up all the files for Part 1 of the Maintenance Manual and I have also uploaded all the files for Part 2, together with the Appendices and Supplements.

A single file containing all of Part 1 is already available via the 'Links' section and a similar link will appear in the next day or so for Part 2.

Please note that Part 2 does not contain any colour images, as I only have access to a black & white photocopy of that part of the manual. If anybody has access to the schematics and PCB overlays in colour, I would be happy to add them to the existing files.

That completes the uploading of all the RA1778 manuals to which I have access, the next task is to start a corrections file for errors which have crept into the manuals themselves - again any contributions would be gratefully received.

73 de David, G4IRQ

14. Re: [RA1778] Re: Maintenance Manual Part 1 - Now available as a single 29Mb file download.

Yahoo group: RA1778
Date: 2010-09-15 17:50:27 UTC
From: David Bobbett
Topic: 5 Message: 14

Very true Jean-Claude, but it would have been nice!

73 de David, G4IRQ

On 15/09/2010 10:35, casy_ch@... wrote:
>
> Hi David
> I do appreciate your work very much. Also better a b/w copy instead
> of no copy, isn't it ?
> Cheers and 73 de Jean-Claude, Switzerland
>
> ----- Original Message -----
> *From:* zilbershatz <mailto:4z4rb1@...>
> *To:* RA1778@yahoogroups.com <mailto:RA1778@yahoogroups.com>
> *Sent:* Wednesday, September 15, 2010 9:25 AM
> *Subject:* [RA1778] Re: Maintenance Manual Part 1 - Now available
> as a single 29Mb file download.
>
>
>
> --- In RA1778@yahoogroups.com <mailto:RA1778@yahoogroups.com>,
> David Bobbett <d.bobbett@...> wrote:
> >
> > Hi Nick,
> >
> > Thanks very much for the kind words! I will be starting work on
> Part 2
> > of the Maintenance Manual very soon - sadly, it will only be
> black and
> > white as I do not have a copy of the colour version.
> >
> >
> > 73 de David, G4IRQ
> >
> >
> >
> > On 14/09/2010 22:13, ik3glf wrote:
> > >
> > > David,
> > > just let me use the post to thanks for the job of scanning and
> > > publishing the manual. It is a very important piece of
> informations
> > > for us lover of this fine equipment and will be important to
> help us

> > > owners to keep it in perfect conditions.
> > >
> > > 73
> > >
> > > Nick
> > > IK3GLF
> > >
> > > --- In RA1778@yahoogroups.com
> <mailto:RA1778%40yahoogroups.com> <mailto:RA1778%40yahoogroups.com>,
> > > "znww5" <d.bobbett@> wrote:
> > > >
> > > > Thanks for that Nick - I have corrected the link and it now
> works
> > > OK. It's been a long day!
> > > >
> > > > 73 de David, G4IRQ
> > > >
> > > >
> > > >
> > > > --- In RA1778@yahoogroups.com
> <mailto:RA1778%40yahoogroups.com> <mailto:RA1778%40yahoogroups.com>,
> > > "ik3glf" <ik3glf@> wrote:
> > > > >
> > > > > There is a mistake in the link for the maintenence manual.
> > > > > The correct link should read:
> > > > >
> > > > > http://www.hfradio.org.uk/RA1778_Maintenance_Manual.pdf
> > > > >
> > > > > 73
> > > > > Nick
> > > > > IK3GLF
> > > > >
> > > > >
> > > > > --- In RA1778@yahoogroups.com
> <mailto:RA1778%40yahoogroups.com> <mailto:RA1778%40yahoogroups.com>,
> > > "znww5" <d.bobbett@> wrote:
> > > > > >
> > > > > > Please see the Links section for a single download of
> this file.
> > > > > >
> > > > > > Many thanks to Sean, G4UCJ for hosting this on his web site.
> > > > > >
> > > > > >
> > > > >
> > > >
> > > >Great work !!!
> > > Thank you very much for your blessed work it is super!!
> > > Now we know what's inside...
> > >

>

15. Re: [RA1778] Re: Maintenance Manual Part 1 - Now available as a single 29Mb file download.

Yahoo group: RA1778
Date: 2010-09-15 19:45:53 UTC
From: Bob Betts
Topic: 5 Message: 15

Thanks, Dave, for all your hard work, it's appreciated.

BTW: I like your last name,
Best,

Bob Betts

http://www.bobsamerica.com/swl.html
* Music * Audio * Radio *
"It's all good"

--- On Wed, 9/15/10, David Bobbett <d.bobbett@...> wrote:

Very true Jean-Claude, but it would have been nice!

73 de David, G4IRQ

16. Re: Maintenance Manual Part 1 - Now available as a single 29Mb file download.

Yahoo group: RA1778
Date: 2010-09-15 22:11:37 UTC
From: znww5
Topic: 5 Message: 16

Hi Bob,

Thanks for the thanks! What a coincidence with your name and mine - although mine is only in the singular of course :-)

73 de David, G4IRQ

--- In RA1778@yahoogroups.com, Bob Betts <rwbetts@...> wrote:
>
> Thanks, Dave, for all your hard work, it's appreciated.
>
> BTW: I like your last name,
> Best,
>
> Bob Betts
>
>
> http://www.bobsamerica.com/swl.html
> * Music * Audio * Radio *
> "It's all good"
>
> --- On Wed, 9/15/10, David Bobbett <d.bobbett@...> wrote:
>
>
>
>
>
>
>
>
>
>
> Very true Jean-Claude, but it would have been nice!
>
> 73 de David, G4IRQ
>

17. Maintenance Manual Part 2 now posted

Yahoo group: RA1778
Date: 2010-09-15 22:14:13 UTC
From: znww5
Topic: 17 Message: 17

Hi all,

Part 1 of the Maintenance Manual has been tidied up and I have posted Part 2 as well. There will be a link to a single large download for Part 2 in the next day or so.

73 de David, G4IRQ

18. RA 177x IF/AF Board PM674

Yahoo group: RA1778
Date: 2010-09-16 03:53:18 UTC
From: William
Topic: 18 Message: 18

Several pictures of this board now posted in photos.

19. LINE LEVEL ADJUSTMENT - QUESTION

Yahoo group: RA1778
Date: 2010-09-16 12:45:15 UTC
From: Nicola Gandini
Topic: 19 Message: 19

Hallo to the group,
I would appreciate if somebody could explain me better the correct procedure to adjust the Line Level.

My radio have full sensitivity in USB / CW / FSK / ISB-U but very little in LSB / AM / ISB-L and I would like to verify, before doing any other modification, to adjust the Line Level and see if this change something.

The steps that I do not understand are described in Paragraph 30, point 7), page 2.12 of the Operations Manual: where is located the AM/USB line level control?

Many thanks

Nick
IK3GLF

20. Re: LINE LEVEL ADJUSTMENT - QUESTION

Yahoo group: RA1778
Date: 2010-09-16 13:45:27 UTC
From: znww5
Topic: 19 Message: 20

Hi Nick,

Look below the main tuning knob on the front panel and you will see some writing - Line Level Adjust - . At each end of the line you will see a small hole, the one on the left is for AM/USB line level adjustment and the hole on the right is for LSB. They are adjusted using a flat screwdriver blade.

73 de DGB

--- In RA1778@yahoogroups.com, "Nicola Gandini" <ik3glf@...> wrote:
>
> Hallo to the group,
> I would appreciate if somebody could explain me better the correct procedure to adjust the Line Level.
>
> My radio have full sensitivity in USB / CW / FSK / ISB-U but very little in LSB / AM / ISB-L and I would like to verify, before doing any other modification, to adjust the Line Level and see if this change something.
>
> The steps that I do not understand are described in Paragraph 30, point 7), page 2.12 of the Operations Manual: where is located the AM/USB line level control?
>
> Many thanks
>
> Nick
> IK3GLF
>

21. Single large (17Mb) download link for Maintenance Manual - Part 2 now available.

Yahoo group: RA1778
Date: 2010-09-16 13:56:54 UTC
From: znww5
Topic: 21 Message: 21

If you want Part 2 of the Maintenance Manual as a single download, the link is now available.

Thanks again to Sean, G4UCJ, for hosting the large RA1778 files on his website.

73 de David, G4IRQ

22. Re: [RA1778] Single large (17Mb) download link for Maintenance Manual - Part 2 now available.

Yahoo group: RA1778
Date: 2010-09-16 14:07:30 UTC
From: casy_ch@tbwil.ch
Topic: 21 Message: 22

Hello David

Would you have the link for the part 2 as I always get the operations manual if I go to http://www.hfradio.org.uk.

Thank and 73 de Jean-Claude

----- Original Message -----
From: znww5
To: RA1778@yahoogroups.com
Sent: Thursday, September 16, 2010 3:56 PM
Subject: [RA1778] Single large (17Mb) download link for Maintenance Manual - Part 2 now available.

If you want Part 2 of the Maintenance Manual as a single download, the link is now available.

Thanks again to Sean, G4UCJ, for hosting the large RA1778 files on his website.

73 de David, G4IRQ

23. Re: Single large (17Mb) download link for Maintenance Manual - Part 2 now available.

Yahoo group: RA1778
Date: 2010-09-16 15:43:04 UTC
From: znww5
Topic: 21 Message: 23

Hi Jean-Claude,

If you go to the Links section and click on the title of the link, it will take you there. I have tested it just now and it works OK for me.

You can also copy the link shown below and paste it into your browser

http://www.hfradio.org.uk/RA1778_Maintenance_Manual_Part2.pdf

It is the same as the URL I use for the link and that works OK for me too.

Please let me know if this solves the problem.

73 de David, G4IRQ

--- In RA1778@yahoogroups.com, <casy_ch@...> wrote:
>
> Hello David
>
> Would you have the link for the part 2 as I always get the operations manual if I go to http://www.hfradio.org.uk.
>
> Thank and 73 de Jean-Claude
>
>
> ----- Original Message -----
> From: znww5
> To: RA1778@yahoogroups.com
> Sent: Thursday, September 16, 2010 3:56 PM
> Subject: [RA1778] Single large (17Mb) download link for Maintenance Manual - Part 2 now available.
>
>
>
> If you want Part 2 of the Maintenance Manual as a single download, the link is now available.
>
> Thanks again to Sean, G4UCJ, for hosting the large RA1778 files on his website.
>
> 73 de David, G4IRQ
>

24. Re: LINE LEVEL ADJUSTMENT - QUESTION

Yahoo group: RA1778
Date: 2010-09-16 16:20:06 UTC
From: Nicola Gandini
Topic: 19 Message: 24

Thanks,
that is what I thought they was mentioning in the manual.
But I can't see any difference while turning so I though the manual was referring to something else, maybe on some internal boards.

Nick

--- In RA1778@yahoogroups.com, "znww5" <d.bobbett@...> wrote:
>
>
> Hi Nick,
>
> Look below the main tuning knob on the front panel and you will see some writing - Line Level Adjust - . At each end of the line you will see a small hole, the one on the left is for AM/USB line level adjustment and the hole on the right is for LSB. They are adjusted using a flat screwdriver blade.
>
>
> 73 de DGB
>
>
>
>
> --- In RA1778@yahoogroups.com, "Nicola Gandini" <ik3glf@> wrote:
> >
> > Hallo to the group,
> > I would appreciate if somebody could explain me better the correct procedure to adjust the Line Level.
> >
> > My radio have full sensitivity in USB / CW / FSK / ISB-U but very little in LSB / AM / ISB-L and I would like to verify, before doing any other modification, to adjust the Line Level and see if this change something.
> >
> > The steps that I do not understand are described in Paragraph 30, point 7), page 2.12 of the Operations Manual: where is located the AM/USB line level control?
> >
> > Many thanks
> >
> > Nick
> > IK3GLF
> >
>

25. Re: LINE LEVEL ADJUSTMENT - QUESTION

Yahoo group: RA1778
Date: 2010-09-16 18:29:03 UTC
From: znww5
Topic: 19 Message: 25

Hi Nick,

Tune the radio to a strong AM station (or a signal generator with 30% AM modulation at 1kHz), set the meter to 'RF' and AGC to 'SHORT'. Switch to LSB on the mode switch and write down the signal strength, switch the mode switch to USB and write down the signal strength again. Repeat the readings several times to get a good average.

If the two sets of readings are not similar, the most likely reason is that the LSB IF board needs to be re-aligned or has a fault.

73 de David, G4IRQ

--- In RA1778@yahoogroups.com, "Nicola Gandini" <ik3glf@...> wrote:
>
> Hallo to the group,
> I would appreciate if somebody could explain me better the correct procedure to adjust the Line Level.
>
> My radio have full sensitivity in USB / CW / FSK / ISB-U but very little in LSB / AM / ISB-L and I would like to verify, before doing any other modification, to adjust the Line Level and see if this change something.
>
> The steps that I do not understand are described in Paragraph 30, point 7), page 2.12 of the Operations Manual: where is located the AM/USB line level control?
>
> Many thanks
>
> Nick
> IK3GLF
>

26. Re: [RA1778] Re: Single large (17Mb) download link for Maintenance Manual - Part 2 now available.

Yahoo group: RA1778
Date: 2010-09-16 20:59:56 UTC
From: casy_ch@tbwil.ch
Topic: 21 Message: 26

Hello David

Yes it helped indeed. The download took only a minute. Thanks a lot.

73 de Jean-Claude

----- Original Message -----
From: znww5
To: RA1778@yahoogroups.com
Sent: Thursday, September 16, 2010 5:43 PM
Subject: [RA1778] Re: Single large (17Mb) download link for Maintenance Manual - Part 2 now available.

Hi Jean-Claude,

If you go to the Links section and click on the title of the link, it will take you there. I have tested it just now and it works OK for me.

You can also copy the link shown below and paste it into your browser

http://www.hfradio.org.uk/RA1778_Maintenance_Manual_Part2.pdf

It is the same as the URL I use for the link and that works OK for me too.

Please let me know if this solves the problem.

73 de David, G4IRQ

--- In RA1778@yahoogroups.com, <casy_ch@...> wrote:
>
> Hello David
>
> Would you have the link for the part 2 as I always get the operations manual if I go to http://www.hfradio.org.uk.
>
> Thank and 73 de Jean-Claude
>
>
> ----- Original Message -----
> From: znww5
> To: RA1778@yahoogroups.com
> Sent: Thursday, September 16, 2010 3:56 PM
> Subject: [RA1778] Single large (17Mb) download link for Maintenance Manual - Part 2 now available.
>
>

>
> If you want Part 2 of the Maintenance Manual as a single download, the link is now available.
>
> Thanks again to Sean, G4UCJ, for hosting the large RA1778 files on his website.
>
> 73 de David, G4IRQ
>

27. Re: LINE LEVEL ADJUSTMENT - QUESTION

Yahoo group: RA1778
Date: 2010-09-17 05:48:33 UTC
From: Nicola Gandini
Topic: 19 Message: 27

Thanks David,
that is a good point. I'll work at that hopefully on the coming week end.
The radio shows good performances in USB and poor in LSB.
Also noticed that:

1) if the AGC is set to OFF, performances (noise level) get low also on USB, ISB-U, AM, CW FSK.
2) changing AGC position does not change performances (noise level) in LSB and ISB-L

Nick

--- In RA1778@yahoogroups.com, "znww5" <d.bobbett@...> wrote:
>
> Hi Nick,
>
> Tune the radio to a strong AM station (or a signal generator with 30% AM modulation at 1kHz), set the meter to 'RF' and AGC to 'SHORT'. Switch to LSB on the mode switch and write down the signal strength, switch the mode switch to USB and write down the signal strength again. Repeat the readings several times to get a good average.
>
> If the two sets of readings are not similar, the most likely reason is that the LSB IF board needs to be re-aligned or has a fault.
>
> 73 de David, G4IRQ
>
>
>
>
>
> --- In RA1778@yahoogroups.com, "Nicola Gandini" <ik3glf@> wrote:
> >
> > Hallo to the group,
> > I would appreciate if somebody could explain me better the correct procedure to adjust the Line Level.
> >
> > My radio have full sensitivity in USB / CW / FSK / ISB-U but very little in LSB / AM / ISB-L and I would like to verify, before doing any other modification, to adjust the Line Level and see if this change something.
> >
> > The steps that I do not understand are described in Paragraph 30, point 7), page 2.12 of the Operations Manual: where is located the AM/USB line level control?
> >
> > Many thanks
> >
> > Nick
> > IK3GLF

> >
>

28. New file uploaded to RA1778

Yahoo group: RA1778
Date: 2010-09-17 09:07:28 UTC
From: RA1778@yahoogroups.com
Topic: 1 Message: 28

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the RA1778
group.

File : /PM674 IF-AF Board Schematic.pdf
Uploaded by : znww5 <d.bobbett@...>
Description : PM674 IF/AF Board Schematic. Many thanks to Dan Rae for providing this missing information.

You can access this file at the URL:
http://groups.yahoo.com/group/RA1778/files/PM674%20IF-AF%20Board%20Schematic.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/forms/general.htmlfiles

Regards,

znww5 <d.bobbett@...>

29. RA1778 diagrams

Yahoo group: RA1778
Date: 2010-10-17 18:43:13 UTC
From: g3ncn
Topic: 29 Message: 29

I have now received the return of my RA1778 manuals, both part 1 and part 2.

The diagrams are in colour since these manuals are originals and not Xerox copies.

Does anyone want to put these on the site, or do you think the monochrome versions are enough.

John Ellerton G3NCN

30. New member

Yahoo group: RA1778
Date: 2011-03-31 20:01:14 UTC
From: Vince Maddex
Topic: 30 Message: 30

Hi, Iam Vince, new member of the group.
I am pleased to have joined the group.
I have a collection of Racal sets and the 1778 is my latest addition and what a lovely receiver it is to use.

Best regards to all members

Vince (G8YPK)

31. Racal RA-1765

Yahoo group: RA1778
Date: 2011-09-13 13:02:18 UTC
From: casy_ch
Topic: 31 Message: 31

Hello everybody

I was looking at an auction for a RA-1765 Panoramic display which I will probably get.
Would anybody have some literature about it?

Any help would be appreciated

Jean-Claude, HE9EZX
Switzerland

32. Racal RA-1766 - Panoramic display

Yahoo group: RA1778
Date: 2011-09-27 14:27:50 UTC
From: casy_ch
Topic: 32 Message: 32

Hello everybody

I have a panoramic display RA-1766 for which I have not found any information. Does somebody know something or have some documentation about it?

I have put 2 pictures of it in the photo album.

I am not sure if it was released by Racal for use with an RA-1772 or an RA-1778 receiver.

73 de Jean-Claude, HE9EZX, Switzerland

33. Re: Racal RA-1765

Yahoo group: RA1778
Date: 2011-10-24 06:54:34 UTC
From: davidg4irq
Topic: 31 Message: 33

Hi Jean-Claude,

Just a note to let you know that I did post your question on Premium RX as I promised - sadly there were no replies :-(Did you manage to get the information you were looking for from some other source?

As you can see, I have also finally sorted out my access problems to this group.

73 de David, G4IRQ

--- In RA1778@yahoogroups.com, "casy_ch" <casy_ch@...> wrote:
>
> Hello everybody
>
> I was looking at an auction for a RA-1765 Panoramic display which I will probably get. Would anybody have some literature about it?
>
> Any help would be appreciated
>
> Jean-Claude, HE9EZX
> Switzerland
>

34. Re: Racal RA-1765

Yahoo group: RA1778
Date: 2011-10-24 07:26:23 UTC
From: casy_ch@tbwil.ch
Topic: 31 Message: 34
Attachments: 2 described; binary payloads are missing from this source WARC

Hello David

Well this RA-1765 is a little story for itself!

When I received the rig, it was a Racal RA-1766. The auctioner made a mistake. Although he is a radio-electrician he does not know anything about it and was selling rigs in the name of his father who used to collect rigs in the past.

After a couple of weeks somebody from a Racal newsgroup told me that from looking at the pics it is probably an Eddystone 1061HF panoramic display. I then opened the rig and effectively it is full of Eddystone subunits!

I managed to buy two manuals, one for the Eddystone 1061/A and one for the 1061/B. Mine has on top got a Polaroid bezel, but I do not have any more Polaroid camera which I used for taking pictures of diy SSTV converters fitted with radar CRTs.

The rig seems to work. I connected it to a RA-3712 but its sweep is not fast enough to persistently see the signal. Something I will have to tackle in future, but first I am trying to get my novice licence soon - hi!

Vy 73 de Jean-Claude, HE9EZX

----- Original Message -----
From: davidg4irq
To: RA1778@yahoogroups.com
Sent: Monday, October 24, 2011 8:54 AM
Subject: [RA1778] Re: Racal RA-1765

Hi Jean-Claude,

Just a note to let you know that I did post your question on Premium RX as I promised - sadly there were no replies :-(Did you manage to get the information you were looking for from some other source?

As you can see, I have also finally sorted out my access problems to this group.

73 de David, G4IRQ

--- In RA1778@yahoogroups.com, "casy_ch" <casy_ch@...> wrote:
>
> Hello everybody
>
> I was looking at an auction for a RA-1765 Panoramic display which I will probably get. Would anybody have some literature about it?
>
> Any help would be appreciated
>

> Jean-Claude, HE9EZX
> Switzerland
>

35. Re: Racal RA-1765

Yahoo group: RA1778
Date: 2011-10-24 07:48:20 UTC
From: davidg4irq
Topic: 31 Message: 35

Hi Jean-Claude,

Very pleased to hear that you got the information - and a nice surprise with your Racal/Eddystone unit ;-)

I have seen the Polaroid oscilloscope type of camera on ePay from time to time, but of course there is also the problem of the film - I don't know if that is still available.

I suppose one solution would be to use a cheap digital camera which has a long exposure time - then you would have a 'digital' bandscope :-) It would be fun to experiment when you get the time.

Good luck with the novice licence,

All the best,

David

--- In RA1778@yahoogroups.com, <casy_ch@...> wrote:
>
> Hello David
>
> Well this RA-1765 is a little story for itself!
>
> When I received the rig, it was a Racal RA-1766. The auctioner made a mistake. Although he is a radio-electrician he does not know anything about it and was selling rigs in the name of his father who used to collect rigs in the past.
>
> After a couple of weeks somebody from a Racal newsgroup told me that from looking at the pics it is probably an Eddystone 1061HF panoramic display. I then opened the rig and effectively it is full of Eddystone subunits!
>
> I managed to buy two manuals, one for the Eddystone 1061/A and one for the 1061/B. Mine has on top got a Polaroid bezel, but I do not have any more Polaroid camera which I used for taking pictures of diy SSTV converters fitted with radar CRTs.
>
> The rig seems to work. I connected it to a RA-3712 but its sweep is not fast enough to persistently see the signal. Something I will have to tackle in future, but first I am trying to get my novice licence soon - hi!
>
> Vy 73 de Jean-Claude, HE9EZX
>
> ----- Original Message -----
> From: davidg4irq
> To: RA1778@yahoogroups.com
> Sent: Monday, October 24, 2011 8:54 AM
> Subject: [RA1778] Re: Racal RA-1765

>
>
>
> Hi Jean-Claude,
>
> Just a note to let you know that I did post your question on Premium RX as I promised - sadly there were no replies :-(Did you manage to get the information you were looking for from some other source?
>
> As you can see, I have also finally sorted out my access problems to this group.
>
> 73 de David, G4IRQ
>
> --- In RA1778@yahoogroups.com, "casy_ch" <casy_ch@> wrote:
> >
> > Hello everybody
> >
> > I was looking at an auction for a RA-1765 Panoramic display which I will probably get. Would anybody have some literature about it?
> >
> > Any help would be appreciated
> >
> > Jean-Claude, HE9EZX
> > Switzerland
> >
>

36. Re: [RA1778] Re: Racal RA-1765

Yahoo group: RA1778
Date: 2011-10-24 08:24:18 UTC
From: John Ellerton
Topic: 31 Message: 36

Yes, Jean Claude, it is a long time ago, but I think you are correct.
The RA1766 was a Eddystone panadaptor, "badge engineered " for the
1770 series. Probably the Eddystone unit would have been modified for
the IF output of 1.4 MHz.
So many years further on, that is all I can tell you now.
John Ellerton

On 24 Oct 2011, at 08:26, <casy_ch@...> wrote:

>
> Hello David
>
> Well this RA-1765 is a little story for itself!
>
> When I received the rig, it was a Racal RA-1766. The auctioner made
> a mistake. Although he is a radio-electrician he does not know
> anything about it and was selling rigs in the name of his father who
> used to collect rigs in the past.
>
> After a couple of weeks somebody from a Racal newsgroup told me that
> from looking at the pics it is probably an Eddystone 1061HF
> panoramic display. I then opened the rig and effectively it is full
> of Eddystone subunits!
>
> I managed to buy two manuals, one for the Eddystone 1061/A and one
> for the 1061/B. Mine has on top got a Polaroid bezel, but I do not
> have any more Polaroid camera which I used for taking pictures of
> diy SSTV converters fitted with radar CRTs.
>
> The rig seems to work. I connected it to a RA-3712 but its sweep is
> not fast enough to persistently see the signal. Something I will
> have to tackle in future, but first I am trying to get my novice
> licence soon - hi!
>
> Vy 73 de Jean-Claude, HE9EZX
>
> ----- Original Message -----
> From: davidg4irq
> To: RA1778@yahoogroups.com
> Sent: Monday, October 24, 2011 8:54 AM
> Subject: [RA1778] Re: Racal RA-1765
>
>
>
> Hi Jean-Claude,
>

> Just a note to let you know that I did post your question on Premium
> RX as I promised - sadly there were no replies :-(Did you manage to
> get the information you were looking for from some other source?
>
> As you can see, I have also finally sorted out my access problems to
> this group.
>
> 73 de David, G4IRQ
>
> --- In RA1778@yahoogroups.com, "casy_ch" <casy_ch@...> wrote:
> >
> > Hello everybody
> >
> > I was looking at an auction for a RA-1765 Panoramic display which
> I will probably get. Would anybody have some literature about it?
> >
> > Any help would be appreciated
> >
> > Jean-Claude, HE9EZX
> > Switzerland
> >
>
>
>
>
> <Racal_RA-1766_Top_HV-
> PSU_01lowres.jpg><Racal_RA-1766_Front_01lowres.jpg>

37. Re: [RA1778] Racal RA-1766 - Panoramic display

Yahoo group: RA1778
Date: 2011-10-24 08:18:53 UTC
From: John Ellerton
Topic: 32 Message: 37

It was released by Racal for use wiht the whole 1770 series.
John Ellerton 1770 engineer.

On 27 Sep 2011, at 15:27, casy_ch wrote:

> Hello everybody
>
> I have a panoramic display RA-1766 for which I have not found any
> information. Does somebody know something or have some documentation
> about it?
>
> I have put 2 pictures of it in the photo album.
>
> I am not sure if it was released by Racal for use with an RA-1772 or
> an RA-1778 receiver.
>
> 73 de Jean-Claude, HE9EZX, Switzerland
>
>

38. Parts wanted - 1778 control knobs

Yahoo group: RA1778
Date: 2011-10-24 12:54:27 UTC
From: davidg4irq
Topic: 38 Message: 38

I'm trying to locate 5 control knobs for a 1778 which I am restoring - for some reason all the lower skirts on this set have been, ahem, borrowed in the past.

I really only need the lower clip-on skirts, but complete knobs would be fine too. They are the plain versions with no side flutes, are 27mm high and are used on the IF, AF gain controls as well as the RF Tune control and filter selection switch.

If you've got any going spare, please get in touch.

Thanks,

David Bobbett, G4IRQ

39. Re: Parts wanted - 1778 control knobs

Yahoo group: RA1778
Date: 2011-10-27 17:04:45 UTC
From: davidg4irq
Topic: 38 Message: 39

Further to my last, I've been able to locate these spares no they are no longer needed.

73 all, David

--- In RA1778@yahoogroups.com, "davidg4irq" <d.bobbett@...> wrote:
>
> I'm trying to locate 5 control knobs for a 1778 which I am restoring - for some reason all the lower skirts on this set have been, ahem, borrowed in the past.
>
> I really only need the lower clip-on skirts, but complete knobs would be fine too. They are the plain versions with no side flutes, are 27mm high and are used on the IF, AF gain controls as well as the RF Tune control and filter selection switch.
>
> If you've got any going spare, please get in touch.
>
> Thanks,
>
> David Bobbett, G4IRQ
>

40. Power supply

Yahoo group: RA1778
Date: 2012-04-15 10:53:23 UTC
From: Vince Maddex
Topic: 40 Message: 40

Hi, can anyone help me find a replacement voltage regulator chip used in the receiver power supply it is ML4. A F723HM ?
I am not sure were to look for one.
May be somebody has already been down this road.

Vince.

41. Re: [RA1778] Power supply

Yahoo group: RA1778
Date: 2012-04-15 15:37:06 UTC
From: Helge Kyndbo
Topic: 40 Message: 41

Hi,
May I surgest UA723 made by fairchild and others in the 70's
helge

Den 15. apr. 2012 12.53 skrev Vince Maddex <vincemaddex@...>:

>
>
> Hi, can anyone help me find a replacement voltage regulator chip used in
> the receiver power supply it is ML4. A F723HM ?
> I am not sure were to look for one.
> May be somebody has already been down this road.
>
> Vince.
>
>
>

42. Re: [RA1778] Power supply

Yahoo group: RA1778
Date: 2012-04-15 16:25:35 UTC
From: John Raymond Dore
Topic: 40 Message: 42

Hi in response to Vince,
In RA1772 listed as uA723HM
I guess F is for Fairchild in place of uA
73s John GW3XPK

On 15 April 2012 11:53, Vince Maddex <vincemaddex@...> wrote:

> **
>
>
> Hi, can anyone help me find a replacement voltage regulator chip used in
> the receiver power supply it is ML4. A F723HM ?
> I am not sure were to look for one.
> May be somebody has already been down this road.
>
> Vince.
>
>
>

43. Re: Power supply

Yahoo group: RA1778
Date: 2012-04-16 19:48:45 UTC
From: enriqueeeeee2001
Topic: 40 Message: 43

Hello Vince,

I purchased four uA723CH regulators, mine it is a RACAL 1772, the only difference it is that the operating temperature of the CH it is
70°c and the 723HM it is 150°C.

Datasheets:

http://es.farnell.com/jsp/displayProduct.jsp?sku=1215191&CMP=KNC-GES-FES-GEN-SKU-G12&mckv=smYGKxfdk|pcrid|9217852029|plid||kword|lm723ch|&s_kwcid=TC|14560|lm723ch||S|b|9217852029
http://es.farnell.com/jsp/displayProduct.jsp?sku=1216174&CMP=KNC-GES-FES-GEN-SKU-G12&mckv=sfEz0Mv6F|pcrid|9217852029|plid||kword|lm723h|&s_kwcid=TC|14560|lm723h||S|b|9217852029

I bought the 723CH on this ebay site:

http://www.ebay.es/itm/4-x-LM723CH-UA723-LM723-CH-Metal-Can-IC-Volt-Reg-NEW-/320886079013?pt=Componenti_elettronici_attivi&hash=item4ab64cfe25

I have not used them yet since I believed that my rig had a failure on the power supply. The 'out of lock' does not work, and I still have not found the problem.

Regards.

--- In RA1778@yahoogroups.com, John Raymond Dore <johnrdore@...> wrote:
>
> Hi in response to Vince,
> In RA1772 listed as uA723HM
> I guess F is for Fairchild in place of uA
> 73s John GW3XPK
>
> On 15 April 2012 11:53, Vince Maddex <vincemaddex@...> wrote:
>
> > **
> > >
> > >
> > > Hi, can anyone help me find a replacement voltage regulator chip used in
> > > the receiver power supply it is ML4. A F723HM ?
> > > I am not sure were to look for one.
> > > May be somebody has already been down this road.
> > >
> > > Vince.
> > >
> > >
> > >
>

44. Re: [RA1778] Power supply

Yahoo group: RA1778
Date: 2012-04-15 23:18:08 UTC
From: Vince Maddex
Topic: 40 Message: 44

Thanks for your reply.

Vince

45. RA1778 Drive Level Fault - Help please

Yahoo group: RA1778
Date: 2012-09-06 07:51:24 UTC
From: Frank Mitchell
Topic: 45 Message: 45

Hi,
    I own a RA1778 receiver, (best RX at my QTH).
Recently, RX has developed a fault, in that the 1st LO Drive Level has dropped to about a quarter of nominal level, as measured on Front panel meter.
Not a metering fault as equivalent reduction in RX sensitivity present.
I have circuits from Technical manual (the large pdf files).
My measurements show that fault is noted on 1st Mixer PCB (PM335).
During earlier measurements, problem did intermittently correct itself, so I suspected a 'bad' joint.
But can't find the intermittent!

People:
  Has anyone had similar problems?
  Suggestions greatly appreciated.
Thank you, Regards & 73
Frank (G8PCB)

46. Drive Level Fault

Yahoo group: RA1778
Date: 2012-09-03 19:04:50 UTC
From: Frank Mitchell
Topic: 46 Message: 46

Hi,
    I own a RA1778 receiver, (best RX at my QTH).
Recently, RX has developed a fault, in that the 1st LO Drive Level has dropped to about a quarter of nominal level, as measured on Front panel meter.
Not a metering fault as equivalent reduction in RX sensitivity present.
I have circuits from Technical manual (the large pdf files).
My measurements show that fault is noted on 1st Mixer PCB (PM335).
During earlier measurements, problem did intermittently correct itself, so I suspected a 'bad' joint.
But can't find the intermittent!

People:
  Has anyone had similar problems?
  Suggestions greatly appreciated.
Thank you, Regards & 73
Frank (G8PCB)

47. Re: [RA1778] Drive Level Fault

Yahoo group: RA1778
Date: 2012-09-06 10:00:03 UTC
From: John Ellerton
Topic: 46 Message: 47

If you are talking about an intermittent fault, the griplets used to connect the upper and lower tracks on p[cbs have been known to go "dry joint", Frank.
Check input to first mixer pcb (pins 9 and 10). The level should be 750mV peak to peak on a scope.
Is the fault present below 4MHz, or above 4MHz? Check the filter switching
Check the level at TP5 on the first mixer. It should be 400mV p-p on a scope.
Check the supplies to the first mixer driver -7V at the junction of R30/C40, +12 volts approx at the junction L17, R22, R31,R37.
If your circuit diagrams have the red overlay, some very useful DC measurements are given, around the dirver circuit.
Hope that helps a little.
John Ellerton. (G3NCN)

On 3 Sep 2012, at 20:04, Frank Mitchell wrote:

>
> Hi,
> I own a RA1778 receiver, (best RX at my QTH).
> Recently, RX has developed a fault, in that the 1st LO Drive Level
> has dropped to about a quarter of nominal level, as measured on
> Front panel meter.
> Not a metering fault as equivalent reduction in RX sensitivity
> present.
> I have circuits from Technical m anual (the large pdf files).
> My measurements show that fault is noted on 1st Mixer PCB (PM335).
> During earlier measurements, problem did intermittently correct
> itself, so I suspected a 'bad' joint.
> But can't find the intermittent!
> People:
> Has anyone had similar problems?
> Suggestions greatly appreciated.
> Thank you, Regards & 73
> Frank (G8PCB)
>
>

48. Switch cleaning and sensitivity question

Yahoo group: RA1778
Date: 2012-09-22 05:46:26 UTC
From: jonbignall
Topic: 48 Message: 48

Hi all.

I wonder if anyone could give me some pointers. I hope I may be in a position to help someone else some time as my knowledge increases....

I have recently acquired an RA1772 which I know is an older model but I'm hoping is sufficiently similar leaving aside the continuous tuning and the memories of the later 1778 model. I couldn't find a group specific to the 1772.

My receiver seemed to be working well aside from a slight fault with one of the display segments and some very crackly pots and switches.

Having had success with switch cleaning on other radios I set about cleaning the following switches with Servisol:

MHZ, AGC, mode and bandwidth.

This has reduced the crackling but it seems also to have caused some new problems:

1. Sensitivity is well down, particularly on the lower bands, Radio 4 long wave is now very weak and noisy, the standard time/freq signal on 60 KHz is inaudible. Higher bands, e.g 14 MHz don't seem as badly affected but are still down in performance.

2. There seem to be a lot of spurious heterodynes and digital switching or display related noises when tuning that weren't there before.

I didn't physically disturb anything, just squirted in the cleaner sparingly and operated the controls a few times. I wonder if I plugged the set back in and turned it on a bit too soon after cleaning, I left it about 2-3 minutes, perhaps the cleaner hadn't fully evaporated and caused a short.

Looking at the service manual, I know I have a lot to learn and a lot of test gear to acquire before I start delving into the nitty gritty, but I didn't imagine a bit of innocent switch cleaning could do so much harm. It goes without saying I'm kicking myself...

The rail voltage readings on the panel meter all show normal, the drive level reads slightly low but I think it was like that before the cleaning.

My question is twofold:

Is there anything basic and obvious I could check without access to signal generators, oscilloscopes and the like?

If, as I suspect, the answer to the above question is no, is there anyone still out there taking on the servicing of these sets, I gather that Rob Filby in the UK has stopped taking on repairs of Racal gear.

I have a number of quite nice consumer shortwave radios but I've always wanted one of these, now I'm lucky enough to have one I'm a bit gutted that I've messed it up already!

Anyone have any advice?

Thanks

Jon

49. Re: Switch cleaning and sensitivity question

Yahoo group: RA1778
Date: 2012-09-22 10:38:10 UTC
From: davidg4irq
Topic: 48 Message: 49

Hi Jon,

Just to get you started, here's a link to the BAMA site where you will find manuals which are specific to the 1772:

http://bama.edebris.com/manuals/racal/ra1771_72/

I've also added a direct page link to the 'Links' section so that it is easier for people to find.

73 de David, G4IRQ

--- In RA1778@yahoogroups.com, "jonbignall" <jonathan.bignall@...> wrote:
>
> Hi all.
>
> I wonder if anyone could give me some pointers. I hope I may be in a position to help someone else some time as my knowledge increases....
>
> I have recently acquired an RA1772 which I know is an older model but I'm hoping is sufficiently similar leaving aside the continuous tuning and the memories of the later 1778 model. I couldn't find a group specific to the 1772.
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> MHZ, AGC, mode and bandwidth.
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> This has reduced the crackling but it seems also to have caused some new problems:
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> 1. Sensitivity is well down, particularly on the lower bands, Radio 4 long wave is now very weak and noisy, the standard time/freq signal on 60 KHz is inaudible. Higher bands, e.g 14 MHz don't seem as badly affected but are still down in performance.
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> 2. There seem to be a lot of spurious heterodynes and digital switching or display related noises when tuning that weren't there before.
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> I didn't physically disturb anything, just squirted in the cleaner sparingly and operated the controls a few times. I wonder if I plugged the set back in and turned it on a bit too soon after cleaning, I left it about 2-3 minutes, perhaps the cleaner hadn't fully evaporated and caused a short.
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> Looking at the service manual, I know I have a lot to learn and a lot of test gear to acquire before I start delving into the nitty gritty, but I didn't imagine a bit of innocent switch cleaning could do so much harm. It goes without saying I'm kicking myself...
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> Anyone have any advice?
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> Thanks
>
> Jon
>

50. Re: Switch cleaning and sensitivity question

Yahoo group: RA1778
Date: 2012-09-22 17:21:55 UTC
From: taidllanfair
Topic: 48 Message: 50

Hi Jon,

Sorry to hear that after your good work your 1772 'appears' to be worse than before you started...

I'm working on a similar receiver here and have used switch cleaner without any ill effects. I used it on the Tuning Rate switch as the frequency was jumping slightly when switching between slow and fast. Whilst it didn't cure the problem (just a shot in the dark) it had no adverse effects. Incidentally I use DeoxIT which has a good track record. It's an American product, available on eBay but costs a lot...

On one ocassion my receiver appeared to be low on sensitivity and full of heterodynes - just like yours - listening to just about anything was impossible - especially am! Switching the 34 Mc/s oscillator off then on (the switch is on the rear) cured it. I also squirted a few drops of DeoxIT into the switch, I'll just have to see if that was the problem...

I'm sure there's a solvent in switch cleaners and when that's dried off the performance may reappear and all will be well.

You should get some good advice on here, good luck.

John

--- In RA1778@yahoogroups.com, "jonbignall" <jonathan.bignall@...> wrote:
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> Hi all.
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> I wonder if anyone could give me some pointers. I hope I may be in a position to help someone else some time as my knowledge increases....
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> Thanks
>
> Jon
>

51. Re: Switch cleaning and sensitivity question

Yahoo group: RA1778
Date: 2012-09-22 22:43:47 UTC
From: davidg4irq
Topic: 48 Message: 51

Hi Jon,

Well the good news is that your voltages and drive level sound healthy and I'm assuming that the Out Of Lock light is off too, so that's a good start.

As John rightly says, it is well worth cleaning and checking the switches on the rear panel, they are not sealed and can go open circuit due to dust and dirt. On some units, I have also found that it can often take more than one cleaning session before they start working reliably again; that also applies to the multi-way switches on the front panel.

As for your broader question, you are correct in saying that there isn't a whole lot you can do with regard to alignment without test gear. On the other hand these radios seem to be very robust, tend to stay aligned over considerable periods and usually only need attention following component failure. Of the 14 or so which I have worked on over the past few years, the main problems have been:

1. the PSU smoothing capacitors
2. the leads on TR3 on the PSU board going open circuit - this kills all supply rails
3. individual electrolytics failing through age
4. dirty switch contacts

Other than that, a particular problem which is specific to the 1771/2/8 series is that of the heat generated by the PSU. The potted rectifiers create so much heat that the plasticiser in the wire insulation can break down, making the wire very brittle and producing chemical products which damage the wire core itself and compromise the solder connections to the rectifiers.

There are a few 'work arounds' to help with this, set the mains voltage selector to 250v to reduce the voltage drop within the PSU and add a large 12v computer fan (running at 6v) to the pass transistor heat sink. There are other mods, but I like to keep my radios 'original' if I can.

I hope some of this background helps :-)

73 de David, G4IRQ

--- In RA1778@yahoogroups.com, "taidllanfair" <john@...> wrote:
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> > Anyone have any advice?
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> > Thanks
> >
> > Jon
> >
>

52. Re: Switch cleaning and sensitivity question

Yahoo group: RA1778
Date: 2012-09-23 07:19:14 UTC
From: jonbignall
Topic: 48 Message: 52

Thanks very much for the advice guys, I'll have a look at those rear panel switches and perhaps have a second go on the front panel ones in case I just moved the dirt around a bit on the first try. I had a Yaesu FRG-7 that was deaf and cleaning the band switch cured it instantly, mind you that's an altogether simpler beast :-)

On a less important note, are replacement displays obtainable other than cannibalising them from other equipment? I have 3 dots missing from the second digit from the left. I somehow got the impression in the past that these were nixie tube displays, but seeing them up close they look more like some kind of early LED display, very nice to look at I must say! I tried googling part numbers from the service manual to no avail...

Many thanks again.

Jon

--- In RA1778@yahoogroups.com, "davidg4irq" <d.bobbett@...> wrote:
>
> Hi Jon,
>
> Well the good news is that your voltages and drive level sound healthy and I'm assuming that the Out Of Lock light is off too, so that's a good start.
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> Other than that, a particular problem which is specific to the 1771/2/8 series is that of the heat generated by the PSU. The potted rectifiers create so much heat that the plasticiser in the wire insulation can break down, making the wire very brittle and producing chemical products which damage the wire core itself and compromise the solder connections to the rectifiers.
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> There are a few 'work arounds' to help with this, set the mains voltage selector to 250v to reduce the voltage drop within the PSU and add a large 12v computer fan (running at 6v)

to the pass transistor heat sink. There are other mods, but I like to keep my radios 'original' if I can.
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> I hope some of this background helps :-)
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> > > Jon
> > >
> >
>

53. Re: Switch cleaning and sensitivity question

Yahoo group: RA1778
Date: 2012-09-22 20:20:21 UTC
From: jonbignall
Topic: 48 Message: 53

I'll take a look at that, thanks David!

Jon

--- In RA1778@yahoogroups.com, "davidg4irq" <d.bobbett@...> wrote:
>
> Hi Jon,
>
> Just to get you started, here's a link to the BAMA site where you will find manuals which are specific to the 1772:
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> > Anyone have any advice?
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> > Jon
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54. Re: Switch cleaning and sensitivity question

Yahoo group: RA1778
Date: 2012-09-23 10:56:43 UTC
From: davidg4irq
Topic: 48 Message: 54

Hi Jon,

Re: LED displays

Places which immediately spring to mind are Display Electronics in London and Toronto Surplus which is in er ... Toronto! And of course it is worth looking on eBay now and then.

The HP5082-7340 displays have a suffix code which indicates brightness, so ideally you need to match them. However, you may only have a dirty pin connection, so I would swop the duff display across with a good one to check it first. I have had inop LEDs before, but I've only had to replace the display once. Maybe I was lucky, but for the most part the cause was dirty IC pins.

73 de David, G4IRQ

--- In RA1778@yahoogroups.com, "jonbignall" <jonathan.bignall@...> wrote:
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> > > > Thanks
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> > > > Jon
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> > >
> >
>

55. Re: Switch cleaning and sensitivity question

Yahoo group: RA1778
Date: 2012-09-23 14:22:54 UTC
From: jonbignall
Topic: 48 Message: 55

Thanks Dave, I'll try your idea with the display swap/pin cleaning when I've got to the bottom of the sensitivity issue. My experience so far with this radio warns me to tread carefully and only tackle one job at a time, noting the effect it has before moving on to the next item!

Cheers.

Jon

--- In RA1778@yahoogroups.com, "davidg4irq" <d.bobbett@...> wrote:
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> Hi Jon,
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> Re: LED displays
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> Places which immediately spring to mind are Display Electronics in London and Toronto Surplus which is in er ... Toronto! And of course it is worth looking on eBay now and then.
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> The HP5082-7340 displays have a suffix code which indicates brightness, so ideally you need to match them. However, you may only have a dirty pin connection, so I would swop the duff display across with a good one to check it first. I have had inop LEDs before, but I've only had to replace the display once. Maybe I was lucky, but for the most part the cause was dirty IC pins.
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56. Re: Switch cleaning and sensitivity question - I'm a numpty!

Yahoo group: RA1778
Date: 2012-09-23 16:23:55 UTC
From: jonbignall
Topic: 48 Message: 56

Well, I'm officially a plank....

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If ever there was an example of how one should "check the basics first" this is it...

On the plus side my 1772 probably now has the cleanest switch contacts in the world!

I'll take a look at the display issue at some point, but in the meantime it's time to have some fun spinning that delightfully weighted tuning knob across the bands. 15 metres seems to be open :-)

Thanks very much guys for all your input. I've learned some useful things about the set already, not least of which it needs it's antenna working properly, same as any other receiver!

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57. Re: Switch cleaning and sensitivity question - I'm a numpty!

Yahoo group: RA1778
Date: 2012-09-23 17:38:30 UTC
From: enriqueeeeee2001
Topic: 48 Message: 57

Hello,

Congrats if you 1772 works as it should. I had a 1530 + too , now I use a 330S and ala 100LN.

I have to say the truth, most times I use my little Lowe HF-150 reciver, the audio it is much more understable and has much less noise floor, apart from that the 1772 is an excellent receiver.

I also cleaned the switch contacts but 'I think' that it did not developped any issue. I say 'I think' because after some days the OUT OF LOCK led indicator does not work.

It happened when I was listening, suddenly the radio went little by little off, like a time fuse, and the again when on working normally.

The red led diode blew, I replaced it but now is always on.

Regards.

--- In RA1778@yahoogroups.com, "jonbignall" <jonathan.bignall@...> wrote:
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> Well, I'm officially a plank....
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> > > > > > > Looking at the service manual, I know I have a lot to learn and a lot of test gear to acquire before I start delving into the nitty gritty, but I didn't imagine a bit of innocent switch cleaning could do so much harm. It goes without saying I'm kicking myself...
> > > > > > >
> > > > > > > The rail voltage readings on the panel meter all show normal, the drive level reads slightly low but I think it was like that before the cleaning.
> > > > > > >
> > > > > > > My question is twofold:
> > > > > > >
> > > > > > > Is there anything basic and obvious I could check without access to signal generators, oscilloscopes and the like?
> > > > > > >
> > > > > > > If, as I suspect, the answer to the above question is no, is there anyone still out there taking on the servicing of these sets, I gather that Rob Filby in the UK has stopped taking on repairs of Racal gear.
> > > > > > >
> > > > > > > I have a number of quite nice consumer shortwave radios but I've always wanted one of these, now I'm lucky enough to have one I'm a bit gutted that I've messed it up already!
> > > > > > >
> > > > > > > Anyone have any advice?
> > > > > > >
> > > > > > > Thanks
> > > > > > >
> > > > > > > Jon
> > > > > > >
> > > > > > >
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>

58. Re: Switch cleaning and sensitivity question - I'm a numpty!

Yahoo group: RA1778
Date: 2012-09-24 12:50:03 UTC
From: jonbignall
Topic: 48 Message: 58

Hi.

I can endorse your comments about the audio on Lowe receivers, my HF-225 is very good as well, for the price they were excellent little sets and more than a match for the JRC receivers.

I run all my receivers into old Hi-Fi speakers which helps for broadcast listening on AM, though perhaps not so ideal for SSB as they reproduce all the white noise and heterodynes a little to faithfully!

Jon

--- In RA1778@yahoogroups.com, "enriqueeeeee2001" <enriqueeeeee2001@...> wrote:
>
> Hello,
>
> Congrats if you 1772 works as it should. I had a 1530 + too , now I use a 330S and ala 100LN.
>
> I have to say the truth, most times I use my little Lowe HF-150 reciver, the audio it is much more understable and has much less noise floor, apart from that the 1772 is an excellent receiver.
>
> I also cleaned the switch contacts but 'I think' that it did not developped any issue. I say 'I think' because after some days the OUT OF LOCK led indicator does not work.
>
> It happened when I was listening, suddenly the radio went little by little off, like a time fuse, and the again when on working normally.
>
> The red led diode blew, I replaced it but now is always on.
>
> Regards.
>
>
>
> --- In RA1778@yahoogroups.com, "jonbignall" <jonathan.bignall@> wrote:
> >
> >
> > Well, I'm officially a plank....
> >
> > Having tried re-cleaning the front panel switches and experimenting with the rear panel oscillator switches to no avail I tried doing some performance comparisons with my trusty Lowe HF-225; guess what, that was lacking sensitivity as well. Turns out I had developed an antenna issue at about the same time as I was cleaning the switches. I'm using a Wellbrook ALA1530 loop and the power supply connector to the interface box had come loose. Doh! Who says there's no such thing as a coincidence?

> >
> > If ever there was an example of how one should "check the basics first" this is it...
> >
> > On the plus side my 1772 probably now has the cleanest switch contacts in the world!
> >
> > I'll take a look at the display issue at some point, but in the meantime it's time to have some fun spinning that delightfully weighted tuning knob across the bands. 15 metres seems to be open :-)
> >
> > Thanks very much guys for all your input. I've learned some useful things about the set already, not least of which it needs it's antenna working properly, same as any other receiver!
> >
> > 73s
> >
> > Jon
> >
> >
> > --- In RA1778@yahoogroups.com, "jonbignall" <jonathan.bignall@> wrote:
> > >
> > >
> > > Thanks Dave, I'll try your idea with the display swap/pin cleaning when I've got to the bottom of the sensitivity issue. My experience so far with this radio warns me to tread carefully and only tackle one job at a time, noting the effect it has before moving on to the next item!
> > >
> > > Cheers.
> > >
> > > Jon
> > >
> > >
> > > --- In RA1778@yahoogroups.com, "davidg4irq" <d.bobbett@> wrote:
> > > >
> > > > Hi Jon,
> > > >
> > > > Re: LED displays
> > > >
> > > > Places which immediately spring to mind are Display Electronics in London and Toronto Surplus which is in er ... Toronto! And of course it is worth looking on eBay now and then.
> > > >
> > > > The HP5082-7340 displays have a suffix code which indicates brightness, so ideally you need to match them. However, you may only have a dirty pin connection, so I would swop the duff display across with a good one to check it first. I have had inop LEDs before, but I've only had to replace the display once. Maybe I was lucky, but for the most part the cause was dirty IC pins.
> > > >
> > > > 73 de David, G4IRQ
> > > >
> > > >

> > > >
> > > > --- In RA1778@yahoogroups.com, "jonbignall" <jonathan.bignall@> wrote:
> > > > >
> > > > > Thanks very much for the advice guys, I'll have a look at those rear panel switches and perhaps have a second go on the front panel ones in case I just moved the dirt around a bit on the first try. I had a Yaesu FRG-7 that was deaf and cleaning the band switch cured it instantly, mind you that's an altogether simpler beast :-)
> > > > >
> > > > > On a less important note, are replacement displays obtainable other than cannibalising them from other equipment? I have 3 dots missing from the second digit from the left. I somehow got the impression in the past that these were nixie tube displays, but seeing them up close they look more like some kind of early LED display, very nice to look at I must say! I tried googling part numbers from the service manual to no avail...
> > > > >
> > > > > Many thanks again.
> > > > >
> > > > > Jon
> > > > >
> > > > > --- In RA1778@yahoogroups.com, "davidg4irq" <d.bobbett@> wrote:
> > > > > >
> > > > > > Hi Jon,
> > > > > >
> > > > > > Well the good news is that your voltages and drive level sound healthy and I'm assuming that the Out Of Lock light is off too, so that's a good start.
> > > > > >
> > > > > > As John rightly says, it is well worth cleaning and checking the switches on the rear panel, they are not sealed and can go open circuit due to dust and dirt. On some units, I have also found that it can often take more than one cleaning session before they start working reliably again; that also applies to the multi-way switches on the front panel.
> > > > > >
> > > > > > As for your broader question, you are correct in saying that there isn't a whole lot you can do with regard to alignment without test gear. On the other hand these radios seem to be very robust, tend to stay aligned over considerable periods and usually only need attention following component failure. Of the 14 or so which I have worked on over the past few years, the main problems have been:
> > > > > >
> > > > > > 1. the PSU smoothing capacitors
> > > > > > 2. the leads on TR3 on the PSU board going open circuit - this kills all supply rails
> > > > > > 3. individual electrolytics failing through age
> > > > > > 4. dirty switch contacts
> > > > > >
> > > > > > Other than that, a particular problem which is specific to the 1771/2/8 series is that of the heat generated by the PSU. The potted rectifiers create so much heat that the plasticiser in the wire insulation can break down, making the wire very brittle and producing chemical products which damage the wire core itself and compromise the solder connections to the rectifiers.
> > > > > >
> > > > > > There are a few 'work arounds' to help with this, set the mains voltage

selector to 250v to reduce the voltage drop within the PSU and add a large 12v computer fan (running at 6v) to the pass transistor heat sink. There are other mods, but I like to keep my radios 'original' if I can.
> > > > > >
> > > > > > I hope some of this background helps :-)
> > > > > >
> > > > > > 73 de David, G4IRQ
> > > > > >
> > > > > >
> > > > > >
> > > > > >
> > > > > > --- In RA1778@yahoogroups.com, "taidllanfair" <john@> wrote:
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > >
> > > > > > > Hi Jon,
> > > > > > >
> > > > > > > Sorry to hear that after your good work your 1772 'appears' to be worse than before you started...
> > > > > > >
> > > > > > > I'm working on a similar receiver here and have used switch cleaner without any ill effects. I used it on the Tuning Rate switch as the frequency was jumping slightly when switching between slow and fast. Whilst it didn't cure the problem (just a shot in the dark) it had no adverse effects. Incidentally I use DeoxIT which has a good track record. It's an American product, available on eBay but costs a lot...
> > > > > > >
> > > > > > > On one ocassion my receiver appeared to be low on sensitivity and full of heterodynes - just like yours - listening to just about anything was impossible - especially am! Switching the 34 Mc/s oscillator off then on (the switch is on the rear) cured it. I also squirted a few drops of DeoxIT into the switch, I'll just have to see if that was the problem...
> > > > > > >
> > > > > > > I'm sure there's a solvent in switch cleaners and when that's dried off the performance may reappear and all will be well.
> > > > > > >
> > > > > > > You should get some good advice on here, good luck.
> > > > > > >
> > > > > > > John
> > > > > > >
> > > > > > > --- In RA1778@yahoogroups.com, "jonbignall" <jonathan.bignall@> wrote:
> > > > > > > >
> > > > > > > > Hi all.
> > > > > > > >
> > > > > > > > I wonder if anyone could give me some pointers. I hope I may be in a position to help someone else some time as my knowledge increases....
> > > > > > > >
> > > > > > > > I have recently acquired an RA1772 which I know is an older model but I'm hoping is sufficiently similar leaving aside the continuous tuning and the memories of the later 1778 model. I couldn't find a group specific to the 1772.
> > > > > > > >

> > > > > > > > My receiver seemed to be working well aside from a slight fault with one of the display segments and some very crackly pots and switches.
> > > > > > > >
> > > > > > > > Having had success with switch cleaning on other radios I set about cleaning the following switches with Servisol:
> > > > > > > >
> > > > > > > > MHZ, AGC, mode and bandwidth.
> > > > > > > >
> > > > > > > > This has reduced the crackling but it seems also to have caused some new problems:
> > > > > > > >
> > > > > > > > 1. Sensitivity is well down, particularly on the lower bands, Radio 4 long wave is now very weak and noisy, the standard time/freq signal on 60 KHz is inaudible. Higher bands, e.g 14 MHz don't seem as badly affected but are still down in performance.
> > > > > > > >
> > > > > > > > 2. There seem to be a lot of spurious heterodynes and digital switching or display related noises when tuning that weren't there before.
> > > > > > > >
> > > > > > > >
> > > > > > > > I didn't physically disturb anything, just squirted in the cleaner sparingly and operated the controls a few times. I wonder if I plugged the set back in and turned it on a bit too soon after cleaning, I left it about 2-3 minutes, perhaps the cleaner hadn't fully evaporated and caused a short.
> > > > > > > >
> > > > > > > > Looking at the service manual, I know I have a lot to learn and a lot of test gear to acquire before I start delving into the nitty gritty, but I didn't imagine a bit of innocent switch cleaning could do so much harm. It goes without saying I'm kicking myself...
> > > > > > > >
> > > > > > > > The rail voltage readings on the panel meter all show normal, the drive level reads slightly low but I think it was like that before the cleaning.
> > > > > > > >
> > > > > > > > My question is twofold:
> > > > > > > >
> > > > > > > > Is there anything basic and obvious I could check without access to signal generators, oscilloscopes and the like?
> > > > > > > >
> > > > > > > > If, as I suspect, the answer to the above question is no, is there anyone still out there taking on the servicing of these sets, I gather that Rob Filby in the UK has stopped taking on repairs of Racal gear.
> > > > > > > >
> > > > > > > > I have a number of quite nice consumer shortwave radios but I've always wanted one of these, now I'm lucky enough to have one I'm a bit gutted that I've messed it up already!
> > > > > > > >
> > > > > > > > Anyone have any advice?
> > > > > > > >
> > > > > > > > Thanks
> > > > > > > >
> > > > > > > > Jon

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59. Aligning RA1772 BFO...

Yahoo group: RA1778
Date: 2012-10-06 15:01:12 UTC
From: taidllanfair
Topic: 59 Message: 59

Hi,

I'm in the process of rescuing an old RA1772 and trying to set up the BFO. (on the 34 mc/s Generator Board).

The Maintainance Manual Part 1 says to adjust inductor L4 for a meter indication of 1.397000 mc/s and R4 for a meter indication of 1.403000 mc/s using a frequency meter connected between pins 11 and 32.

I have a Manual I downloaded off the 'net and someone has put a line through the two frequencies and crossed them over, i.e adjust L4 for 1.403000 and R4 for 1.397000.

Was there a typo in the Manual - which one is correct?

I've set the BFO up as per the correction and it appears ok but I'd like to know it's right before I put the covers back on...

Thanks for your time,

John

60. Re: [RA1778] Aligning RA1772 BFO...

Yahoo group: RA1778
Date: 2012-10-06 19:21:21 UTC
From: John Ellerton
Topic: 59 Message: 60

Hallo John.
When aligning a tuned circuit for frequency coverage, it is always customary to align the capacitor (set by R4) at the high end of the frequency range, and the inductor (L4) at the low frequency end. I would trust the printed instructions. Bear in mind that my involvement in the RA1770 series ended in about 1975!
I do not know who changed the instructions, but pen or penccil is always to be distrusted

73, John.

John G3NCN

On 6 Oct 2012, at 16:01, taidllanfair wrote:

> Hi,
>
> I'm in the process of rescuing an old RA1772 and trying to set up
> the BFO. (on the 34 mc/s Generator Board).
>
> The Maintainance Manual Part 1 says to adjust inductor L4 for a
> meter indication of 1.397000 mc/s and R4 for a meter indication of
> 1.403000 mc/s using a frequency meter connected between pins 11 and
> 32.
>
> I have a Manual I downloaded off the 'net and someone has put a line
> through the two frequencies and crossed them over, i.e adjust L4 for
> 1.403000 and R4 for 1.397000.
>
> Was there a typo in the Manual - which one is correct?
>
> I've set the BFO up as per the correction and it appears ok but I'd
> like to know it's right before I put the covers back on...
>
> Thanks for your time,
>
> John
>
>

61. Re: Aligning RA1772 BFO...

Yahoo group: RA1778
Date: 2012-10-06 20:01:08 UTC
From: taidllanfair
Topic: 59 Message: 61

Hello John,

Thanks for the quick reply.

>>> it is always customary to align the capacitor (set by R4) at the high end of the frequency range, and the inductor (L4) at the low frequency end. <<<

That's what I was thinking. I also have a couple of printed Manuals here (Telford photocopies) and they don't have any 'scribbled corrections'.

I've put the cover plate back on but I think I'll remove it in the next few days and re-adjust R4/L4 correctly. While there's a hole in the plate to give access to L4 unfortunately the plate will have to be removed to gain access to R4. I'm thinking of maybe fitting the additional components that make up the optional crystal oscillator but for now I'll make do with the drifting bfo...

Thanks again for your input,

John

--- In RA1778@yahoogroups.com, John Ellerton <g3ncn@...> wrote:
>
> Hallo John.
> When aligning a tuned circuit for frequency coverage, it is always
> customary to align the capacitor (set by R4) at the high end of the
> frequency range, and the inductor (L4) at the low frequency end. I
> would trust the printed instructions. Bear in mind that my involvement
> in the RA1770 series ended in about 1975!
> I do not know who changed the instructions, but pen or penccil is
> always to be distrusted
>
> 73, John.
>
> John G3NCN
>
>
> On 6 Oct 2012, at 16:01, taidllanfair wrote:
>
> > Hi,
> >
> > I'm in the process of rescuing an old RA1772 and trying to set up
> > the BFO. (on the 34 mc/s Generator Board).
> >
> > The Maintainance Manual Part 1 says to adjust inductor L4 for a
> > meter indication of 1.397000 mc/s and R4 for a meter indication of
> > 1.403000 mc/s using a frequency meter connected between pins 11 and
> > 32.

> >
> > I have a Manual I downloaded off the 'net and someone has put a line
> > through the two frequencies and crossed them over, i.e adjust L4 for
> > 1.403000 and R4 for 1.397000.
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> > Was there a typo in the Manual - which one is correct?
> >
> > I've set the BFO up as per the correction and it appears ok but I'd
> > like to know it's right before I put the covers back on...
> >
> > Thanks for your time,
> >
> > John
> >
> >
>

62. Re: [RA1778] Re: Aligning RA1772 BFO...

Yahoo group: RA1778
Date: 2012-10-06 21:32:34 UTC
From: John Ellerton
Topic: 59 Message: 62

John. When we designed the BFO circuit we included as much
temperature compensation as we could, and I
think you will find the BFO stable enough for CW once you have let the
receiver warm up.
The crystal oscillator was intended for more stable requirements such
as data etc. You might need that mod for that purpose.
John G3NCN

On 6 Oct 2012, at 21:01, taidllanfair wrote:

>
>
> Hello John,
>
> Thanks for the quick reply.
>
> >>> it is always customary to align the capacitor (set by R4) at the
> high end of the frequency range, and the inductor (L4) at the low
> frequency end. <<<
>
> That's what I was thinking. I also have a couple of printed Manuals
> here (Telford photocopies) and they don't have any 'scribbled
> corrections'.
>
> I've put the cover plate back on but I think I'll remove it in the
> next few days and re-adjust R4/L4 correctly. While there's a hole in
> the plate to give access to L4 unfortunately the plate will have to
> be removed to gain access to R4. I'm thinking of maybe fitting the
> additional components that make up the optional crystal oscillator
> but for now I'll make do with the drifting bfo...
>
> Thanks again for your input,
>
> John
>
>
> --- In RA1778@yahoogroups.com, John Ellerton <g3ncn@...> wrote:
> >
> > Hallo John.
> > When aligning a tuned circuit for frequency coverage, it is always
> > customary to align the capacitor (set by R4) at the high end of the
> > frequency range, and the inductor (L4) at the low frequency end. I
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> > in the RA1770 series ended in about 1975!

> > I do not know who changed the instructions, but pen or penccil is
> > always to be distrusted
> >
> > 73, John.
> >
> > John G3NCN
> >
> >
> > On 6 Oct 2012, at 16:01, taidllanfair wrote:
> >
> > > Hi,
> > >
> > > I'm in the process of rescuing an old RA1772 and trying to set up
> > > the BFO. (on the 34 mc/s Generator Board).
> > >
> > > The Maintainance Manual Part 1 says to adjust inductor L4 for a
> > > meter indication of 1.397000 mc/s and R4 for a meter indication of
> > > 1.403000 mc/s using a frequency meter connected between pins 11
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> > > 1.403000 and R4 for 1.397000.
> > >
> > > Was there a typo in the Manual - which one is correct?
> > >
> > > I've set the BFO up as per the correction and it appears ok but
> I'd
> > > like to know it's right before I put the covers back on...
> > >
> > > Thanks for your time,
> > >
> > > John
> > >
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>
>

63. Re: Aligning RA1772 BFO...

Yahoo group: RA1778
Date: 2012-10-09 16:39:27 UTC
From: taidllanfair
Topic: 59 Message: 63

Hi John,

I had another go at adjusting the BFO without any luck - it can be adjusted with inductor at the high end and the resistor at the low end but not as the Manual shows i.e. inductor at the lower end and the resistor at the high end. I'm rather intrigued but not too concerned as the BFO appears to work ok.

Regarding the BFO drift I'm sure you're right, the actual drift is pretty minimal, certainly after the receiver has been on for a few minutes.

In another life I used the old Marconi Atalanta when I was at sea and being a valve radio that drifted but I hardly ever switched it off - typically it was switched on when we left Australia and turned off 6 weeks later when we got to Liverpool - steady as a rock.

Has anyone on here any idea where I might be able to source the small slide switches at the rear of the RA1772 (they turn off the oscillators). I've one which I think is suspect. They have 25mm fixing centres and that's the problem - plenty of smaller ones on eBay and the bigger ones have 28mm fixing centres.

I suppose these latter could be cobbled to fit but the switch toggle travel is also longer so it would be a bit fiddly.

Thanks for your input.

John

--- In RA1778@yahoogroups.com, John Ellerton <g3ncn@...> wrote:
>
> John. When we designed the BFO circuit we included as much
> temperature compensation as we could, and I
> think you will find the BFO stable enough for CW once you have let the
> receiver warm up.
> The crystal oscillator was intended for more stable requirements such
> as data etc. You might need that mod for that purpose.
> John G3NCN
>
> On 6 Oct 2012, at 21:01, taidllanfair wrote:
>
> >
> >
> > Hello John,
> >
> > Thanks for the quick reply.
> >
> > >>> it is always customary to align the capacitor (set by R4) at the
> > high end of the frequency range, and the inductor (L4) at the low
> > frequency end. <<<

> >
> > That's what I was thinking. I also have a couple of printed Manuals
> > here (Telford photocopies) and they don't have any 'scribbled
> > corrections'.
> >
> > I've put the cover plate back on but I think I'll remove it in the
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> > the plate to give access to L4 unfortunately the plate will have to
> > be removed to gain access to R4. I'm thinking of maybe fitting the
> > additional components that make up the optional crystal oscillator
> > but for now I'll make do with the drifting bfo...
> >
> > Thanks again for your input,
> >
> > John
> >
> >
> > --- In RA1778@yahoogroups.com, John Ellerton <g3ncn@> wrote:
> > >
> > > Hallo John.
> > > When aligning a tuned circuit for frequency coverage, it is always
> > > customary to align the capacitor (set by R4) at the high end of the
> > > frequency range, and the inductor (L4) at the low frequency end. I
> > > would trust the printed instructions. Bear in mind that my
> > involvement
> > > in the RA1770 series ended in about 1975!
> > > I do not know who changed the instructions, but pen or penccil is
> > > always to be distrusted
> > >
> > > 73, John.
> > >
> > > John G3NCN
> > >
> > >
> > > On 6 Oct 2012, at 16:01, taidllanfair wrote:
> > >
> > > > Hi,
> > > >
> > > > I'm in the process of rescuing an old RA1772 and trying to set up
> > > > the BFO. (on the 34 mc/s Generator Board).
> > > >
> > > > The Maintainance Manual Part 1 says to adjust inductor L4 for a
> > > > meter indication of 1.397000 mc/s and R4 for a meter indication of
> > > > 1.403000 mc/s using a frequency meter connected between pins 11
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> > > >
> > > > I have a Manual I downloaded off the 'net and someone has put a
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> > > > through the two frequencies and crossed them over, i.e adjust L4

> > for
> > > > 1.403000 and R4 for 1.397000.
> > > >
> > > > Was there a typo in the Manual - which one is correct?
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> > I'd
> > > > like to know it's right before I put the covers back on...
> > > >
> > > > Thanks for your time,
> > > >
> > > > John
> > > >
> > > >
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>

64. Re: [RA1778] Re: Aligning RA1772 BFO...

Yahoo group: RA1778
Date: 2012-10-09 20:02:14 UTC
From: John Ellerton
Topic: 59 Message: 64

Hi John. You have the problem associated with all old receivers.
Spares get smaller.
I think a google exercise might yield a source, but the search may be hard.
I usually start by looking at Farnell - they have a very wide range of components.
But I don't immediately know af a source, John. Sorry.
John G3NCN

On 9 Oct 2012, at 17:39, taidllanfair wrote:

>
>
> Hi John,
>
> I had another go at adjusting the BFO without any luck - it can be
> adjusted with inductor at the high end and the resistor at the low
> end but not as the Manual shows i.e. inductor at the lower end and
> the resistor at the high end. I'm rather intrigued but not too
> concerned as the BFO appears to work ok.
>
> Regarding the BFO drift I'm sure you're right, the actual drift is
> pretty minimal, certainly after the receiver has been on for a few
> minutes.
>
> In another life I used the old Marconi Atalanta when I was at sea
> and being a valve radio that drifted but I hardly ever switched it
> off - typically it was switched on when we left Australia and turned
> off 6 weeks later when we got to Liverpool - steady as a rock.
>
> Has anyone on here any idea where I might be able to source the
> small slide switches at the rear of the RA1772 (they turn off the
> oscillators). I've one which I think is suspect. They have 25mm
> fixing centres and that's the problem - plenty of smaller ones on
> eBay and the bigger ones have 28mm fixing centres.
>
> I suppose these latter could be cobbled to fit but the switch toggle
> travel is also longer so it would be a bit fiddly.
>
> Thanks for your input.
>
> John
>
> --- In RA1778@yahoogroups.com, John Ellerton <g3ncn@...> wrote:
> >

> > John. When we designed the BFO circuit we included as much
> > temperature compensation as we could, and I
> > think you will find the BFO stable enough for CW once you have let
> the
> > receiver warm up.
> > The crystal oscillator was intended for more stable requirements
> such
> > as data etc. You might need that mod for that purpose.
> > John G3NCN
> >
> > On 6 Oct 2012, at 21:01, taidllanfair wrote:
> >
> > >
> > >
> > > Hello John,
> > >
> > > Thanks for the quick reply.
> > >
> > > >>> it is always customary to align the capacitor (set by R4) at
> the
> > > high end of the frequency range, and the inductor (L4) at the low
> > > frequency end. <<<
> > >
> > > That's what I was thinking. I also have a couple of printed
> Manuals
> > > here (Telford photocopies) and they don't have any 'scribbled
> > > corrections'.
> > >
> > > I've put the cover plate back on but I think I'll remove it in the
> > > next few days and re-adjust R4/L4 correctly. While there's a
> hole in
> > > the plate to give access to L4 unfortunately the plate will have
> to
> > > be removed to gain access to R4. I'm thinking of maybe fitting the
> > > additional components that make up the optional crystal oscillator
> > > but for now I'll make do with the drifting bfo...
> > >
> > > Thanks again for your input,
> > >
> > > John
> > >
> > >
> > > --- In RA1778@yahoogroups.com, John Ellerton <g3ncn@> wrote:
> > > >
> > > > Hallo John.
> > > > When aligning a tuned circuit for frequency coverage, it is
> always
> > > > customary to align the capacitor (set by R4) at the high end
> of the
> > > > frequency range, and the inductor (L4) at the low frequency

> end. I
> > > > would trust the printed instructions. Bear in mind that my
> > > involvement
> > > > in the RA1770 series ended in about 1975!
> > > > I do not know who changed the instructions, but pen or penccil
> is
> > > > always to be distrusted
> > > >
> > > > 73, John.
> > > >
> > > > John G3NCN
> > > >
> > > >
> > > > On 6 Oct 2012, at 16:01, taidllanfair wrote:
> > > >
> > > > > Hi,
> > > > >
> > > > > I'm in the process of rescuing an old RA1772 and trying to
> set up
> > > > > the BFO. (on the 34 mc/s Generator Board).
> > > > >
> > > > > The Maintainance Manual Part 1 says to adjust inductor L4
> for a
> > > > > meter indication of 1.397000 mc/s and R4 for a meter
> indication of
> > > > > 1.403000 mc/s using a frequency meter connected between pins
> 11
> > > and
> > > > > 32.
> > > > >
> > > > > I have a Manual I downloaded off the 'net and someone has
> put a
> > > line
> > > > > through the two frequencies and crossed them over, i.e
> adjust L4
> > > for
> > > > > 1.403000 and R4 for 1.397000.
> > > > >
> > > > > Was there a typo in the Manual - which one is correct?
> > > > >
> > > > > I've set the BFO up as per the correction and it appears ok
> but
> > > I'd
> > > > > like to know it's right before I put the covers back on...
> > > > >
> > > > > Thanks for your time,
> > > > >
> > > > > John
> > > > >
> > > > >

> > > >
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65. Re: [RA1778] Re: Aligning RA1772 BFO...

Yahoo group: RA1778
Date: 2012-10-09 20:04:38 UTC
From: John Ellerton
Topic: 59 Message: 65

Hi again John. Just to say that if the alternative adjustment works, go for it!
The alteration has been made by someone who obviously found the same problem as you.
John G3NCN

On 9 Oct 2012, at 17:39, taidllanfair wrote:

>
>
> Hi John,
>
> I had another go at adjusting the BFO without any luck - it can be
> adjusted with inductor at the high end and the resistor at the low
> end but not as the Manual shows i.e. inductor at the lower end and
> the resistor at the high end. I'm rather intrigued but not too
> concerned as the BFO appears to work ok.
>
> Regarding the BFO drift I'm sure you're right, the actual drift is
> pretty minimal, certainly after the receiver has been on for a few
> minutes.
>
> In another life I used the old Marconi Atalanta when I was at sea
> and being a valve radio that drifted but I hardly ever switched it
> off - typically it was switched on when we left Australia and turned
> off 6 weeks later when we got to Liverpool - steady as a rock.
>
> Has anyone on here any idea where I might be able to source the
> small slide switches at the rear of the RA1772 (they turn off the
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> fixing centres and that's the problem - plenty of smaller ones on
> eBay and the bigger ones have 28mm fixing centres.
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> I suppose these latter could be cobbled to fit but the switch toggle
> travel is also longer so it would be a bit fiddly.
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> > as data etc. You might need that mod for that purpose.
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> > > That's what I was thinking. I also have a couple of printed
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66. Re: [RA1778] Re: Aligning RA1772 BFO...

Yahoo group: RA1778
Date: 2012-10-17 22:54:55 UTC
From: Vince Maddex
Topic: 59 Message: 66

Hi it might be due to the IF being upside down in these receivers. The lower sideband filter is actually an upper sideband filter, and so on.
I got into a bit of a muddle using filters from other units. The original filters are labeled to match the IF orientation.

Just a thought.

Vince

67. RA1772 Filter question

Yahoo group: RA1778
Date: 2012-11-24 06:39:39 UTC
From: jonbignall
Topic: 67 Message: 67

Hello all.

I am finding my 1772 to be a pleasure to use and it more than meets my expectations in most regards.

It appears the variant I have was used for data comms, possibly piccolo as it has the ISB, AFC and the 9420 freq reference.

This leads me to my filter question. It works beautifully on SSB and CW, but the filter on AM is very wide. It sounds great on strong stations in the clear, weak ones with adjacent channel splatter are another story. I can only switch bandwidths in USB and USB/BFO mode. I understand the set was equipped this way for a reason, but is it feasible to incorporate an appropriate narrower filter for AM?

If it's not practical, it's no bother, I have other sets that do a good job with AM, but this Racal is so nice to use I'd like to make it my primary receiver!

Any feedback would be appreciated.

Jon

68. Re: RA1772 Filter question

Yahoo group: RA1778
Date: 2012-11-24 14:32:16 UTC
From: Vince Maddex
Topic: 67 Message: 68

--- In RA1778@yahoogroups.com, "jonbignall" <jonathan.bignall@...> wrote:
>
> Hello all.
>
> I am finding my 1772 to be a pleasure to use and it more than meets my expectations in most regards.
>
> It appears the variant I have was used for data comms, possibly piccolo as it has the ISB, AFC and the 9420 freq reference.
>
> This leads me to my filter question. It works beautifully on SSB and CW, but the filter on AM is very wide. It sounds great on strong stations in the clear, weak ones with adjacent channel splatter are another story. I can only switch bandwidths in USB and USB/BFO mode. I understand the set was equipped this way for a reason, but is it feasible to incorporate an appropriate narrower filter for AM?
>
> If it's not practical, it's no bother, I have other sets that do a good job with AM, but this Racal is so nice to use I'd like to make it my primary receiver!
>
> Any feedback would be appreciated.
>
> Jon

Hi Jon, glad you are enjoying your RA1772. It might be worth trying something I have done before. If you combine the two independent side bands through a couple of 10 K resistors then feed that into a powered speaker, like an old computer monitor speaker.
This should provide a good reception of week am stations as it will not be reliant on the carrier to demodulate the audio. It will also be reduced bandwidth to avoid the splatter from near by stations. May be worth a try ?
It is also quite easy to change the filters in the filter board on the 1772 radio. I have seen some symmetrical 3 KHZ on eBay at times.

Good listening

Vince
>

69. Re: RA1772 Filter question

Yahoo group: RA1778
Date: 2012-11-24 14:51:15 UTC
From: jonbignall
Topic: 67 Message: 69

Hi Vince.

That's a very interesting idea! I'll look into it. I've found that ECSS works well on the 1772 for combating interference, so combining the two sidebands might be a good solution.

Thanks Vince.

Jon

--- In RA1778@yahoogroups.com, "Vince Maddex" <vincemaddex@...> wrote:
>
>
>
> --- In RA1778@yahoogroups.com, "jonbignall" <jonathan.bignall@> wrote:
> >
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> >
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> > Jon
>
>
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> Hi Jon, glad you are enjoying your RA1772. It might be worth trying something I have done before. If you combine the two independent side bands through a couple of 10 K resistors then feed that into a powered speaker, like an old computer monitor speaker.
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> It is also quite easy to change the filters in the filter board on the 1772 radio. I have seen some symmetrical 3 KHZ on eBay at times.

>
> Good listening
>
> Vince
> >
>

70. Re: RA1772 Filter question

Yahoo group: RA1778
Date: 2012-11-24 22:29:00 UTC
From: enriqueeeeee2001
Topic: 67 Message: 70

Hello Jon,

I was lucky to find a McCoy 6.8Khz filter to my 1772, it replaces the 8khz that originally came fitted. The perfomance it is good but not enough to make serious dx on AM, for that I always use the 2.7Khz filter on LSB.

I have also a 4.8 Khz this is better but it is about 300 Khz off frequency.

As I said in former posts I use most of the time a Lowe HF-150 receiver for AM dx , audio is much more clearer and less noise floor.

I suppose that its older brother AOR 7030+, still looking for one, is better in this aspect.

Kind Regards

--- In RA1778@yahoogroups.com, "jonbignall" <jonathan.bignall@...> wrote:
>
> Hi Vince.
>
> That's a very interesting idea! I'll look into it. I've found that ECSS works well on the 1772 for combating interference, so combining the two sidebands might be a good solution.
>
> Thanks Vince.
>
> Jon
>
> --- In RA1778@yahoogroups.com, "Vince Maddex" <vincemaddex@> wrote:
> >
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> >
> > --- In RA1778@yahoogroups.com, "jonbignall" <jonathan.bignall@> wrote:
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> > Good listening
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> > Vince
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> >
>

71. Re: [RA1778] Re: RA1772 Filter question

Yahoo group: RA1778
Date: 2012-11-25 19:07:42 UTC
From: John Ellerton
Topic: 67 Message: 71

Jon, When you do combine the sidebands use AFC Full Carrier. You'll reduce the audio bandwidth, though.
The original AM filter was sometimes a 13kHz so that the audio bandwidth was 6kHz, primarily for broadcast reception. The roofing filter in the 37.5 IF is of a similar bandwidth.
John G3NCN. (original designer)

On 24 Nov 2012, at 14:51, jonbignall wrote:

> Hi Vince.
>
> That's a very interesting idea! I'll look into it. I've found that
> ECSS works well on the 1772 for combating interference, so combining
> the two sidebands might be a good solution.
>
> Thanks Vince.
>
> Jon
>
> --- In RA1778@yahoogroups.com, "Vince Maddex" <vincemaddex@...> wrote:
> >
> >
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> > --- In RA1778@yahoogroups.com, "jonbignall" <jonathan.bignall@>
> wrote:
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> > Hi Jon, glad you are enjoying your RA1772. It might be worth
> trying something I have done before. If you combine the two
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> that into a powered speaker, like an old computer monitor speaker.
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> will not be reliant on the carrier to demodulate the audio. It will
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> stations. May be worth a try ?
> > It is also quite easy to change the filters in the filter board on
> the 1772 radio. I have seen some symmetrical 3 KHZ on eBay at times.
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> > Good listening
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> > Vince
> > >
> >
>
>

72. Fwd: [RA1778] Re: RA1772 Filter question

Yahoo group: RA1778
Date: 2012-11-25 19:12:54 UTC
From: John Ellerton
Topic: 72 Message: 72

I should add that the most usually fitted filter was 8kHz, to allow
4kHz audio banwidth from AM signals.
John G3NCN.

Begin forwarded message:

> From: John Ellerton <g3ncn@...>
> Date: 25 November 2012 19:07:42 GMT
> To: RA1778@yahoogroups.com
> Subject: Re: [RA1778] Re: RA1772 Filter question
> Reply-To: RA1778@yahoogroups.com
>
> Jon, When you do combine the sidebands use AFC Full Carrier. You'll
> reduce the audio bandwidth, though.
>
> The original AM filter was sometimes a 13kHz so that the audio
> bandwidth was 6kHz, primarily for broadcast reception. The roofing
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> John G3NCN. (original designer)
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> On 24 Nov 2012, at 14:51, jonbignall wrote:
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>> Thanks Vince.
>>
>> Jon
>>
>> --- In RA1778@yahoogroups.com, "Vince Maddex" <vincemaddex@...>
>> wrote:
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>> >
>> &g t; --- In RA1778@yahoogroups.com, "jonbignall"
>> <jonathan.bignall@> wrote:
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>

73. Re: RA1772 Filter question

Yahoo group: RA1778
Date: 2012-11-27 06:36:25 UTC
From: jonbignall
Topic: 67 Message: 73

Thanks John. I look forward to experimenting!

--- In RA1778@...m, John Ellerton <g3ncn@...> wrote:
>
> Jon, When you do combine the sidebands use AFC Full Carrier. You'll
> reduce the audio bandwidth, though.
> The original AM filter was sometimes a 13kHz so that the audio
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> > > Good listening
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> > > Vince
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74. Moderating messages

Yahoo group: RA1778
Date: 2012-12-13 10:34:36 UTC
From: davidg4irq
Topic: 74 Message: 74

Hi group!

As you all probably know, I initially started this group on a 'fully moderated' basis - simply to reduce the chances of it being taken over by mountains of spam.

Over the next day or two I will be changing the status of all current members so that you can post without the inconvenience of being moderated all the time.

I will still keep an eye on new sign-ups, but hopefully the group is too small and specialised to attract the attention of the usual irritants.

Wishing all group members a Very Merry Xmas and a Happy New Year :-)

73 de David, G4IRQ

75. Snelgrove IF filters

Yahoo group: RA1778
Date: 2012-12-14 23:17:32 UTC
From: enriqueeeeee2001
Topic: 75 Message: 75

Hello,

This evening I have been trying some IF filters in my Racal 1772 that I had stored since the 80's.

I have not datasheets and I have been surfing the web trying to find out any information but not luck at all.

I have removed a 6.8 Khz filter and I have put a Snelgrove filter instead but the sounds that comes out of the speakers is a bit muffled. I guess that is an impedance mismatch.

The filters are the following:

CR. SNELGROVE COMPANY TORONTO CANADA

F1400-43A, F1400-55L, F1400-55U

Please, if anybody has any idea where can I find some information or are interested in getting them mail me off the list.

Thank you.

76. Out of lock light...

Yahoo group: RA1778
Date: 2013-01-04 10:27:43 UTC
From: taidllanfair
Topic: 76 Message: 76

Hello,

One of my Racal RA1772 receivers appears to have developed a fault and I'm wondering before I dig into it someone on here may have had the same problem and can give me some ideas. I seem to remember reading about this problem elsewhere but I can't remember where.

Quite simply the `out of lock' light no longer works. When I bought this receiver some months the out of lock light was permanently on, I traced this to a dry joint on one of the boards. Since then the receiver has worked well. I have no reason to suspect that this latest fault is in any way connected to the earlier one, i.e. permanent out of lock.

The receiver still works well but the OOL light does not flicker when tuning as it used to, and as it does on my other 1772.

Any ideas would be gratefully received!

John

77. Re: [RA1778] Out of lock light...

Yahoo group: RA1778
Date: 2013-01-04 10:39:34 UTC
From: John Raymond Dore
Topic: 76 Message: 77

I am away from my circuits but is it not the case that there is a circuit
to blank the light during tuning?
I would look and see that was not permanently blanking.
John GW3XPK

On 4 January 2013 10:27, taidllanfair <john@gw3vvc.freeserve.co.uk> wrote:

> **
>
>
> Hello,
>
> One of my Racal RA1772 receivers appears to have developed a fault and I'm
> wondering before I dig into it someone on here may have had the same
> problem and can give me some ideas. I seem to remember reading about this
> problem elsewhere but I can't remember where.
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> Quite simply the `out of lock' light no longer works. When I bought this
> receiver some months the out of lock light was permanently on, I traced
> this to a dry joint on one of the boards. Since then the receiver has
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> way connected to the earlier one, i.e. permanent out of lock.
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> The receiver still works well but the OOL light does not flicker when
> tuning as it used to, and as it does on my other 1772.
>
> Any ideas would be gratefully received!
>
> John
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>
>

78. Re: [RA1778] Out of lock light...

Yahoo group: RA1778
Date: 2013-01-04 15:41:07 UTC
From: John Raymond Dore
Topic: 76 Message: 78

Hi again re RA1772 blanking of out-of-lock indicator all the time,
If you look at the display board circuit you will see the 3 lock lines
entering on the left hand side.
The retriggerable monostable ML33a drives the base of TR1 via diode D5
This is to blank during tuning.
It could be blanking all the time.
Good luck. I will be interested in the outcome. I am in mid-Wales.
73s John GW3XPK

On 4 January 2013 10:27, taidllanfair <john@...ve.co.uk> wrote:

> **
>
>
> Hello,
>
> One of my Racal RA1772 receivers appears to have developed a fault and I'm
> wondering before I dig into it someone on here may have had the same
> problem and can give me some ideas. I seem to remember reading about this
> problem elsewhere but I can't remember where.
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> Quite simply the `out of lock' light no longer works. When I bought this
> receiver some months the out of lock light was permanently on, I traced
> this to a dry joint on one of the boards. Since then the receiver has
> worked well. I have no reason to suspect that this latest fault is in any
> way connected to the earlier one, i.e. permanent out of lock.
>
> The receiver still works well but the OOL light does not flicker when
> tuning as it used to, and as it does on my other 1772.
>
> Any ideas would be gratefully received!
>
> John
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>
>

79. Re: Out of lock light...

Yahoo group: RA1778
Date: 2013-01-04 22:38:18 UTC
From: enriqueeeeee2001
Topic: 76 Message: 79

Hello John,

Same happened to me three years ago, I have not fixed it yet.

The red led blew up, I replaced it with a new one but now the out of lock light is always on.

A technician told me that it might be the transistor TR1 located in the display board circuit, BFX48, it is not working as it should.

Along these years I have contacted with different 1772's owners, they have suggested some solutions to fix it, but I have no the lab instruments to check it.

Fortunately, I have keeping emails. I paste some interesting paragraphs that could help. I have also all maintenance manuals and extra schemes with measures, if you need them please let me know.

These are the paragraphs:

"The symptom you describe is failure of one or more of the RF phase lock loops - there are three. The red LED is driven by the three phase lock loops via an OR gate - so you need to get inside to see which PLL isn't working.

You are fortunate that the adjustment of the RF circuits is good and central enough for the radio to work - but it will drift off from time to time as there is no lock to hold it stable. Usually the radio just goes off tune and never comes back until repaired."

"I suspect one of the logic gates in the Alexander phase detector is not working."

"In my experience, I have found the greatest number of faults in the PSU area - particularly the 723 regulators - which are not stressed electrically, so I put it down to end-of-life failure. Also the main tuning encoders - dead lamps, or mechanical misalignment. Out-of-lock indication is usually PSU related, but I have found a varactor duff once or twice."

"Let me have another think about what causes the LED out of lock indicator to light.

All the phase lock loops appear to be aligned OK now, the Rx is working correctly, so there must be an incorrect logic level being generated between the loop output and the LED driver logic.

The lock alarm indications are "summed" together so if only one is incorrect it will cause the LED to light.

You need to work backwards from the LED logic.

I would suspect a "dry" soldered joint, maybe on the pins on the edge of one of the associated printed circuit boards.

Quite often the LEDs do fail, probably because they were "early" models, later ones are usually OK.."

--- In RA1778@yahoogroups.com, John Raymond Dore wrote:
>
> Hi again re RA1772 blanking of out-of-lock indicator all the time,
> If you look at the display board circuit you will see the 3 lock lines
> entering on the left hand side.
> The retriggerable monostable ML33a drives the base of TR1 via diode D5
> This is to blank during tuning.
> It could be blanking all the time.
> Good luck. I will be interested in the outcome. I am in mid-Wales.
> 73s John GW3XPK
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> On 4 January 2013 10:27, taidllanfair wrote:
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> > Hello,
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> > One of my Racal RA1772 receivers appears to have developed a fault and I'm
> > wondering before I dig into it someone on here may have had the same
> > problem and can give me some ideas. I seem to remember reading about this
> > problem elsewhere but I can't remember where.
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> > Quite simply the `out of lock' light no longer works. When I bought this
> > receiver some months the out of lock light was permanently on, I traced
> > this to a dry joint on one of the boards. Since then the receiver has
> > worked well. I have no reason to suspect that this latest fault is in any
> > way connected to the earlier one, i.e. permanent out of lock.
> >
> > The receiver still works well but the OOL light does not flicker when
> > tuning as it used to, and as it does on my other 1772.
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> > Any ideas would be gratefully received!
> >
> > John
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80. Re: [RA1778] Re: Out of lock light...

Yahoo group: RA1778
Date: 2013-01-05 08:56:20 UTC
From: John Raymond Dore
Topic: 76 Message: 80

To be clear is the 'out of lock' light permanently on or (as I read
your email) permanently off? My answer was treating the permanently
off case.
John

On 04/01/2013, enriqueeeeee2001 <enriqueeeeee2001@...> wrote:
> Hello John,
>
> Same happened to me three years ago, I have not fixed it yet.
>
> The red led blew up, I replaced it with a new one but now the out of lock
> light is always on.
>
> A technician told me that it might be the transistor TR1 located in the
> display board circuit, BFX48, it is not working as it should.
>
> Along these years I have contacted with different 1772's owners, they have
> suggested some solutions to fix it, but I have no the lab instruments to
> check it.
>
> Fortunately, I have keeping emails. I paste some interesting paragraphs
> that could help. I have also all maintenance manuals and extra schemes with
> measures, if you need them please let me know.
>
> These are the paragraphs:
>
> "The symptom you describe is failure of one or more of the RF phase lock
> loops - there are three. The red LED is driven by the three phase lock loops
> via an OR gate - so you need to get inside to see which PLL isn't working.
>
> You are fortunate that the adjustment of the RF circuits is good and central
> enough for the radio to work - but it will drift off from time to time as
> there is no lock to hold it stable. Usually the radio just goes off tune and
> never comes back until repaired."
>
> "I suspect one of the logic gates in the Alexander phase detector is not
> working."
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> "In my experience, I have found the greatest number of faults in the PSU
> area - particularly the 723 regulators - which are not stressed

> electrically, so I put it down to end-of-life failure. Also the main tuning
> encoders - dead lamps, or mechanical misalignment. Out-of-lock indication is
> usually PSU related, but I have found a varactor duff once or twice."
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> "Let me have another think about what causes the LED out of lock indicator
> to light.
>
> All the phase lock loops appear to be aligned OK now, the Rx is working
> correctly, so there must be an incorrect logic level being generated between
> the loop output and the LED driver logic.
>
> The lock alarm indications are "summed" together so if only one is incorrect
> it will cause the LED to light.
>
> You need to work backwards from the LED logic.
>
> I would suspect a "dry" soldered joint, maybe on the pins on the edge of one
> of the associated printed circuit boards.
>
> Quite often the LEDs do fail, probably because they were "early" models,
> later ones are usually OK.."
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> --- In RA1778@yahoogroups.com, John Raymond Dore wrote:
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>> Hi again re RA1772 blanking of out-of-lock indicator all the time,
>> If you look at the display board circuit you will see the 3 lock lines
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>> The retriggerable monostable ML33a drives the base of TR1 via diode D5
>> This is to blank during tuning.
>> It could be blanking all the time.
>> Good luck. I will be interested in the outcome. I am in mid-Wales.
>> 73s John GW3XPK
>>
>> On 4 January 2013 10:27, taidllanfair wrote:
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>> >
>> > Hello,
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>> > One of my Racal RA1772 receivers appears to have developed a fault and
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81. Re: Out of lock light...

Yahoo group: RA1778
Date: 2013-01-05 13:00:57 UTC
From: enriqueeeeee2001
Topic: 76 Message: 81

Hello John,

The out of lock in my 1772 is permanently on. When I purchased it worked correctly but after two months developed this issue.

What is strange is that the led blew up. As you said and other people I asked it is quite sure that a dry joint is causing this problem. Do you remember what joint was faulty in your 1772 ?

I strongly recommend you to subscribe to Premium Rx group, there are
some 1772 owners and can help. There is even a engineer in charge that developed the 1772 and people that worked in Racal factory.

I send you the addresses where you can subscribe:

Premium-Rx mailing list
Home: http://mailman.qth.net/mailman/listinfo/premium-rx
Help Page: http://mailman.qth.net/mmfaq.htm
Post: mailto:Premium-Rx@....net
Help Contact eMail: paul@...
Home Page: http://www.premium-rx.org/

I hope this can help.

Kind Regards.

--- In RA1778@yahoogroups.com, John Raymond Dore wrote:
>
> To be clear is the 'out of lock' light permanently on or (as I read
> your email) permanently off? My answer was treating the permanently
> off case.
> John
>
> On 04/01/2013, enriqueeeeee2001 wrote:
> > Hello John,
> >
> > Same happened to me three years ago, I have not fixed it yet.
> >
> > The red led blew up, I replaced it with a new one but now the out of lock
> > light is always on.
> >
> > A technician told me that it might be the transistor TR1 located in the
> > display board circuit, BFX48, it is not working as it should.
> >
> > Along these years I have contacted with different 1772's owners, they have
> > suggested some solutions to fix it, but I have no the lab instruments to

> > check it.
> >
> > Fortunately, I have keeping emails. I paste some interesting paragraphs
> > that could help. I have also all maintenance manuals and extra schemes with
> > measures, if you need them please let me know.
> >
> > These are the paragraphs:
> >
> > "The symptom you describe is failure of one or more of the RF phase lock
> > loops - there are three. The red LED is driven by the three phase lock loops
> > via an OR gate - so you need to get inside to see which PLL isn't working.
> >
> > You are fortunate that the adjustment of the RF circuits is good and central
> > enough for the radio to work - but it will drift off from time to time as
> > there is no lock to hold it stable. Usually the radio just goes off tune and
> > never comes back until repaired."
> >
> > "I suspect one of the logic gates in the Alexander phase detector is not
> > working."
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> > "In my experience, I have found the greatest number of faults in the PSU
> > area - particularly the 723 regulators - which are not stressed
> > electrically, so I put it down to end-of-life failure. Also the main tuning
> > encoders - dead lamps, or mechanical misalignment. Out-of-lock indication is
> > usually PSU related, but I have found a varactor duff once or twice."
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> > "Let me have another think about what causes the LED out of lock indicator
> > to light.
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> > All the phase lock loops appear to be aligned OK now, the Rx is working
> > correctly, so there must be an incorrect logic level being generated between
> > the loop output and the LED driver logic.
> >
> > The lock alarm indications are "summed" together so if only one is incorrect
> > it will cause the LED to light.
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> > You need to work backwards from the LED logic.
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> > I would suspect a "dry" soldered joint, maybe on the pins on the edge of one
> > of the associated printed circuit boards.
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> > Quite often the LEDs do fail, probably because they were "early" models,
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> >> Hi again re RA1772 blanking of out-of-lock indicator all the time,
> >> If you look at the display board circuit you will see the 3 lock lines
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> >> The retriggerable monostable ML33a drives the base of TR1 via diode D5
> >> This is to blank during tuning.
> >> It could be blanking all the time.
> >> Good luck. I will be interested in the outcome. I am in mid-Wales.
> >> 73s John GW3XPK
> >>
> >> On 4 January 2013 10:27, taidllanfair wrote:
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> >> > **
> >> >
> >> >
> >> > Hello,
> >> >
> >> > One of my Racal RA1772 receivers appears to have developed a fault and
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> >> > Quite simply the `out of lock' light no longer works. When I bought
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82. Re: Out of lock light...

Yahoo group: RA1778
Date: 2013-01-05 15:07:52 UTC
From: taidllanfair
Topic: 76 Message: 82

Hi,

Thanks for all your suggestions/advice.

Just to clarify, the out of lock light on this RA1772 is permanently off, it 'never' comes on. I have just checked my other receiver and the OOL light on that one only flashes briefly when I start to turn the tuning knob, it the goes off, presumably because it gets a blanking signal, as soon as the knob is being turned. As I stop tuning it again flashes briefly.

I'm sure the faulty receiver did the same. When I say faulty, the receiver appears to work ok, just that the OOL light has ceased to work.

I will have a look around TR1 and the LED itself in the next few days. I'm grateful for all suggestions and advice as I'm partially sighted so I'd like to spend as little time as possible wielding a soldering iron inside the receiver!

Incidentally when the OOL light was permanently on some months ago I found a dry joint on one of the boards, I've mislaid my files but soon as I find them I'll post the information on here, might be useful for somebody...

Thanks again,

John

--- In RA1778@yahoogroups.com, "enriqueeeeee2001" wrote:
>
> Hello John,
>
> The out of lock in my 1772 is permanently on. When I purchased it worked correctly but after two months developed this issue.
>
> What is strange is that the led blew up. As you said and other people I asked it is quite sure that a dry joint is causing this problem. Do you remember what joint was faulty in your 1772 ?
>
> I strongly recommend you to subscribe to Premium Rx group, there are
> some 1772 owners and can help. There is even a engineer in charge that developed the 1772 and people that worked in Racal factory.
>
> I send you the addresses where you can subscribe:
>
> Premium-Rx mailing list
> Home: http://mailman.qth.net/mailman/listinfo/premium-rx
> Help Page: http://mailman.qth.net/mmfaq.htm

> Post: mailto:Premium-Rx@...
> Help Contact eMail: paul@...
> Home Page: http://www.premium-rx.org/
>
> I hope this can help.
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> Kind Regards.
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> > To be clear is the 'out of lock' light permanently on or (as I read
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> > > Same happened to me three years ago, I have not fixed it yet.
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> > > Fortunately, I have keeping emails. I paste some interesting paragraphs
> > > that could help. I have also all maintenance manuals and extra schemes with
> > > measures, if you need them please let me know.
> > >
> > > These are the paragraphs:
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> > > "The symptom you describe is failure of one or more of the RF phase lock
> > > loops - there are three. The red LED is driven by the three phase lock loops
> > > via an OR gate - so you need to get inside to see which PLL isn't working.
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> > > You are fortunate that the adjustment of the RF circuits is good and central
> > > enough for the radio to work - but it will drift off from time to time as
> > > there is no lock to hold it stable. Usually the radio just goes off tune and
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> > > "In my experience, I have found the greatest number of faults in the PSU
> > > area - particularly the 723 regulators - which are not stressed
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> > > encoders - dead lamps, or mechanical misalignment. Out-of-lock indication is
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> > >> It could be blanking all the time.
> > >> Good luck. I will be interested in the outcome. I am in mid-Wales.
> > >> 73s John GW3XPK
> > >>
> > >> On 4 January 2013 10:27, taidllanfair wrote:
> > >>

> > >> > **
> > >> >
> > >> >
> > >> > Hello,
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> > >> > One of my Racal RA1772 receivers appears to have developed a fault and
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> > >> > wondering before I dig into it someone on here may have had the same
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> > >> > John
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83. Re: Out of lock light...

Yahoo group: RA1778
Date: 2013-01-05 16:02:19 UTC
From: taidllanfair
Topic: 76 Message: 83

enriqueeeeee2001 - I just found the information about my earlier out of lock problem - that was when the OOL light was on permanently. This was a problem on this receiver when I bought it and at the time I was not familiar with these receivers.

The OOL problem was a dry solder joint on the PM588 board, near R13/TR4 (voltage control to vco). Gently touching these components the fault became intermittent so I carefully re-soldered the components in this area and the problem disappeared. The receiver then worked normally, I re-aligned the board as per the Manual but that had little effect. The problem on reception was that the receiver worked but not properly - it was difficult to tune, appearing to lock onto strong signals then when tuned jumping to the next strong signal. I hope that information is useful to you - and anyone else on here who has a similar problem...

Incidentally my RA1772 has a PM453 board fitted instead of the PM588 - but they are fairly similar, be careful as my Manual shows the PM588.

Now all I have to do is sort this OOL 'never on' light!

John

--- In RA1778@...m, "taidllanfair" wrote:
>
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> Hi,
>
> Thanks for all your suggestions/advice.
>
> Just to clarify, the out of lock light on this RA1772 is permanently off, it 'never' comes on. I have just checked my other receiver and the OOL light on that one only flashes briefly when I start to turn the tuning knob, it the goes off, presumably because it gets a blanking signal, as soon as the knob is being turned. As I stop tuning it again flashes briefly.
>
> I'm sure the faulty receiver did the same. When I say faulty, the receiver appears to work ok, just that the OOL light has ceased to work.
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> I will have a look around TR1 and the LED itself in the next few days. I'm grateful for all suggestions and advice as I'm partially sighted so I'd like to spend as little time as possible wielding a soldering iron inside the receiver!
>
> Incidentally when the OOL light was permanently on some months ago I found a dry joint on

one of the boards, I've mislaid my files but soon as I find them I'll post the information on here, might be useful for somebody...
>
> Thanks again,
>
> John
>
> ---
>
>
> --- In RA1778@yahoogroups.com, "enriqueeeeee2001" wrote:
> >
> > Hello John,
> >
> > The out of lock in my 1772 is permanently on. When I purchased it worked correctly but after two months developed this issue.
> >
> > What is strange is that the led blew up. As you said and other people I asked it is quite sure that a dry joint is causing this problem. Do you remember what joint was faulty in your 1772 ?
> >
> > I strongly recommend you to subscribe to Premium Rx group, there are
> > some 1772 owners and can help. There is even a engineer in charge that developed the 1772 and people that worked in Racal factory.
> >
> > I send you the addresses where you can subscribe:
> >
> > Premium-Rx mailing list
> > Home: http://mailman.qth.net/mailman/listinfo/premium-rx
> > Help Page: http://mailman.qth.net/mmfaq.htm
> > Post: mailto:Premium-Rx@
> > Help Contact eMail: paul@
> > Home Page: http://www.premium-rx.org/
> >
> > I hope this can help.
> >
> > Kind Regards.
> > _____
> >
> >
> > --- In RA1778@yahoogroups.com, John Raymond Dore wrote:
> > >
> > > To be clear is the 'out of lock' light permanently on or (as I read
> > > your email) permanently off? My answer was treating the permanently
> > > off case.
> > > John
> > >
> > > On 04/01/2013, enriqueeeeee2001 wrote:
> > > > Hello John,
> > > >
> > > > Same happened to me three years ago, I have not fixed it yet.

> > > >
> > > > The red led blew up, I replaced it with a new one but now the out of lock
> > > > light is always on.
> > > >
> > > > A technician told me that it might be the transistor TR1 located in the
> > > > display board circuit, BFX48, it is not working as it should.
> > > >
> > > > Along these years I have contacted with different 1772's owners, they have
> > > > suggested some solutions to fix it, but I have no the lab instruments to
> > > > check it.
> > > >
> > > > Fortunately, I have keeping emails. I paste some interesting paragraphs
> > > > that could help. I have also all maintenance manuals and extra schemes with
> > > > measures, if you need them please let me know.
> > > >
> > > > These are the paragraphs:
> > > >
> > > > "The symptom you describe is failure of one or more of the RF phase lock
> > > > loops - there are three. The red LED is driven by the three phase lock loops
> > > > via an OR gate - so you need to get inside to see which PLL isn't working.
> > > >
> > > > You are fortunate that the adjustment of the RF circuits is good and central
> > > > enough for the radio to work - but it will drift off from time to time as
> > > > there is no lock to hold it stable. Usually the radio just goes off tune and
> > > > never comes back until repaired."
> > > >
> > > > "I suspect one of the logic gates in the Alexander phase detector is not
> > > > working."
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> > > >
> > > > "In my experience, I have found the greatest number of faults in the PSU
> > > > area - particularly the 723 regulators - which are not stressed
> > > > electrically, so I put it down to end-of-life failure. Also the main tuning
> > > > encoders - dead lamps, or mechanical misalignment. Out-of-lock indication is
> > > > usually PSU related, but I have found a varactor duff once or twice."
> > > >
> > > >
> > > >
> > > > "Let me have another think about what causes the LED out of lock indicator
> > > > to light.
> > > >
> > > > All the phase lock loops appear to be aligned OK now, the Rx is working
> > > > correctly, so there must be an incorrect logic level being generated between
> > > > the loop output and the LED driver logic.
> > > >
> > > > The lock alarm indications are "summed" together so if only one is incorrect

> > > > it will cause the LED to light.
> > > >
> > > > You need to work backwards from the LED logic.
> > > >
> > > > I would suspect a "dry" soldered joint, maybe on the pins on the edge of one
> > > > of the associated printed circuit boards.
> > > >
> > > > Quite often the LEDs do fail, probably because they were "early" models,
> > > > later ones are usually OK.."
> > > >
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> > > > --- In RA1778@yahoogroups.com, John Raymond Dore wrote:
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> > > >> Hi again re RA1772 blanking of out-of-lock indicator all the time,
> > > >> If you look at the display board circuit you will see the 3 lock lines
> > > >> entering on the left hand side.
> > > >> The retriggerable monostable ML33a drives the base of TR1 via diode D5
> > > >> This is to blank during tuning.
> > > >> It could be blanking all the time.
> > > >> Good luck. I will be interested in the outcome. I am in mid-Wales.
> > > >> 73s John GW3XPK
> > > >>
> > > >> On 4 January 2013 10:27, taidllanfair wrote:
> > > >>
> > > >> > **
> > > >> >
> > > >> >
> > > >> > Hello,
> > > >> >
> > > >> > One of my Racal RA1772 receivers appears to have developed a fault and
> > > >> > I'm
> > > >> > wondering before I dig into it someone on here may have had the same
> > > >> > problem and can give me some ideas. I seem to remember reading about
> > > >> > this
> > > >> > problem elsewhere but I can't remember where.
> > > >> >
> > > >> > Quite simply the `out of lock' light no longer works. When I bought
> > > >> > this
> > > >> > receiver some months the out of lock light was permanently on, I traced
> > > >> > this to a dry joint on one of the boards. Since then the receiver has
> > > >> > worked well. I have no reason to suspect that this latest fault is in
> > > >> > any
> > > >> > way connected to the earlier one, i.e. permanent out of lock.
> > > >> >
> > > >> > The receiver still works well but the OOL light does not flicker when

> > > >> > tuning as it used to, and as it does on my other 1772.
> > > >> >
> > > >> > Any ideas would be gratefully received!
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> > > >> > John
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84. Re: Out of lock light...

Yahoo group: RA1778
Date: 2013-01-05 18:03:45 UTC
From: enriqueeeeee2001
Topic: 76 Message: 84

Hello John,

I have just finished of resoldering all components in that area but not luck, the led is always on. I will check TR1.

There is no necessity in removing the front panel to check whether the led is fine, just put another led between number 36 point and ground, display board.

Thank you for your help

Regards

--- In RA1778@yahoogroups.com, "taidllanfair" wrote:
>
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>
> enriqueeeeee2001 - I just found the information about my earlier out of lock problem - that was when the OOL light was on permanently. This was a problem on this receiver when I bought it and at the time I was not familiar with these receivers.
>
> The OOL problem was a dry solder joint on the PM588 board, near R13/TR4 (voltage control to vco). Gently touching these components the fault became intermittent so I carefully re-soldered the components in this area and the problem disappeared. The receiver then worked normally, I re-aligned the board as per the Manual but that had little effect. The problem on reception was that the receiver worked but not properly - it was difficult to tune, appearing to lock onto strong signals then when tuned jumping to the next strong signal. I hope that information is useful to you - and anyone else on here who has a similar problem...
>
> Incidentally my RA1772 has a PM453 board fitted instead of the PM588 - but they are fairly similar, be careful as my Manual shows the PM588.
>
> Now all I have to do is sort this OOL 'never on' light!
>
> John
>
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>
> --- In RA1778@yahoogroups.com, "taidllanfair" wrote:
> >
> >
> >

> >
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> >
> > Hi,
> >
> > Thanks for all your suggestions/advice.
> >
> > Just to clarify, the out of lock light on this RA1772 is permanently off, it 'never' comes on. I have just checked my other receiver and the OOL light on that one only flashes briefly when I start to turn the tuning knob, it the goes off, presumably because it gets a blanking signal, as soon as the knob is being turned. As I stop tuning it again flashes briefly.
> >
> > I'm sure the faulty receiver did the same. When I say faulty, the receiver appears to work ok, just that the OOL light has ceased to work.
> >
> > I will have a look around TR1 and the LED itself in the next few days. I'm grateful for all suggestions and advice as I'm partially sighted so I'd like to spend as little time as possible wielding a soldering iron inside the receiver!
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> > Incidentally when the OOL light was permanently on some months ago I found a dry joint on one of the boards, I've mislaid my files but soon as I find them I'll post the information on here, might be useful for somebody...
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> > > I strongly recommend you to subscribe to Premium Rx group, there are
> > > some 1772 owners and can help. There is even a engineer in charge that developed the 1772 and people that worked in Racal factory.
> > >
> > > I send you the addresses where you can subscribe:
> > >
> > > Premium-Rx mailing list

> > > Home: http://mailman.qth.net/mailman/listinfo/premium-rx
> > > Help Page: http://mailman.qth.net/mmfaq.htm
> > > Post: mailto:Premium-Rx@
> > > Help Contact eMail: paul@
> > > Home Page: http://www.premium-rx.org/
> > >
> > > I hope this can help.
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> > > Kind Regards.
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> > > > To be clear is the 'out of lock' light permanently on or (as I read
> > > > your email) permanently off? My answer was treating the permanently
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> > > > On 04/01/2013, enriqueeeeee2001 wrote:
> > > > > Hello John,
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> > > > > Same happened to me three years ago, I have not fixed it yet.
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> > > > > The red led blew up, I replaced it with a new one but now the out of lock
> > > > > light is always on.
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> > > > > A technician told me that it might be the transistor TR1 located in the
> > > > > display board circuit, BFX48, it is not working as it should.
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> > > > > suggested some solutions to fix it, but I have no the lab instruments to
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> > > > > Fortunately, I have keeping emails. I paste some interesting paragraphs
> > > > > that could help. I have also all maintenance manuals and extra schemes with
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> > > > > loops - there are three. The red LED is driven by the three phase lock loops
> > > > > via an OR gate - so you need to get inside to see which PLL isn't working.
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> > > > > You are fortunate that the adjustment of the RF circuits is good and central
> > > > > enough for the radio to work - but it will drift off from time to time as
> > > > > there is no lock to hold it stable. Usually the radio just goes off tune and
> > > > > never comes back until repaired."
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> > > > > "I suspect one of the logic gates in the Alexander phase detector is not

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> > > > > "In my experience, I have found the greatest number of faults in the PSU
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> > > > > encoders - dead lamps, or mechanical misalignment. Out-of-lock indication is
> > > > > usually PSU related, but I have found a varactor duff once or twice."
> > > > >
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> > > > >
> > > > > "Let me have another think about what causes the LED out of lock indicator
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> > > > >
> > > > > All the phase lock loops appear to be aligned OK now, the Rx is working
> > > > > correctly, so there must be an incorrect logic level being generated between
> > > > > the loop output and the LED driver logic.
> > > > >
> > > > > The lock alarm indications are "summed" together so if only one is incorrect
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> > > > > I would suspect a "dry" soldered joint, maybe on the pins on the edge of one
> > > > > of the associated printed circuit boards.
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> > > > > Quite often the LEDs do fail, probably because they were "early" models,
> > > > > later ones are usually OK.."
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> > > > >> It could be blanking all the time.
> > > > >> Good luck. I will be interested in the outcome. I am in mid-Wales.
> > > > >> 73s John GW3XPK
> > > > >>

> > > > >> On 4 January 2013 10:27, taidllanfair wrote:
> > > > >>
> > > > >> > **
> > > > >> >
> > > > >> >
> > > > >> > Hello,
> > > > >> >
> > > > >> > One of my Racal RA1772 receivers appears to have developed a fault and
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> > > > >> > wondering before I dig into it someone on here may have had the same
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> > > > >> > this
> > > > >> > problem elsewhere but I can't remember where.
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> > > > >> > Quite simply the `out of lock' light no longer works. When I bought
> > > > >> > this
> > > > >> > receiver some months the out of lock light was permanently on, I traced
> > > > >> > this to a dry joint on one of the boards. Since then the receiver has
> > > > >> > worked well. I have no reason to suspect that this latest fault is in
> > > > >> > any
> > > > >> > way connected to the earlier one, i.e. permanent out of lock.
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> > > > >> > The receiver still works well but the OOL light does not flicker when
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> > > > >> > Any ideas would be gratefully received!
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85. Re: Out of lock light...

Yahoo group: RA1778
Date: 2013-01-06 09:50:20 UTC
From: gw4frx
Topic: 76 Message: 85

> I have just finished of resoldering all components in that area but not luck, the led is always on. I will check TR1.<

Is the OOL LED on irrespective of the tuned frequency? If not, one of the VCOs may require adjustment.

There are three VCOs for 0-7, 8-17 and 17-30MHz respectively and the alignment instructions in the manual are incorrect, which can cause confusion when setting them up. Using the frequencies and channels specified in the manual, L4 is adjusted with Channel 4 (7.999) set, L5 with Channel 5 (17.999) set and L6 with Channel 3 (29.999)set.

John

86. Re: Out of lock light...

Yahoo group: RA1778
Date: 2013-01-06 15:45:35 UTC
From: enriqueeeeee2001
Topic: 76 Message: 86

Hello John,

The led is on irrespective in all frequencies.

I have checked the PSU voltages and are correct. The drive level is in the 'green' meter part of the scale after five minutes of warming.

Yes , I knew about the incorrect instructions in the manual. Pat send me the following alignment procedures, you can see my comments
in brackets:

Lower loop PM588

1 Set the khz portion of the Rx to 000.000 (And MHZ???)
2.Connect multimeter between TP1 and chassis
3 Adjust L1 for a reading of 14v (13,75 volts today)

Upper loop PM589

1. Set Rx frequency to 17,990,00 (manual states nothing about 17Mhz)

2. Measure between Board Pin 7 and chassis.

3. Check - Adjust L4 for a reading of +14.0 volts. (13,28 volts today)

4. Set Rx frequency to 1,000,00 (manual states nothing about 1 Mhz)

5. Measure between Test Point TP7 and chassis.

6. Check - Adjust L1 for a reading of +16 volts. (15,77 volts today)

I think that L4 and L6 have got changed around.

HF Loop PS337

Set Rx frequency to 29,999,99

Measure between TP18 and chassis

Adjust L20 for a reading of 8.00 volts

Between the junction of L22 and L23 and chassis connect a multimeter

Set Rx frequency to 29,999,99 Adjust L6 for 14.00 volts

Set Rx frequency to17,999,99 Adjust L5 for 14.00 volts ----- OK

Set Rx frequency to 7,999,99 Adjust L4 for 14.00 volts

Here I have a question, Should not be aligned L4 then L5 and L6 in this order? Or does it not matter the order? L6 L5 and L4 in this way.

I am thinking in buying an oscilloscope I could see the signals that come out of each loop.

Thank you again for your help.

Kind Regards.

--- In RA1778@yahoogroups.com, "gw4frx" wrote:
>
> > I have just finished of resoldering all components in that area but not luck, the led is always on. I will check TR1.<
>
> Is the OOL LED on irrespective of the tuned frequency? If not, one of the VCOs may require adjustment.
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> There are three VCOs for 0-7, 8-17 and 17-30MHz respectively and the alignment instructions in the manual are incorrect, which can cause confusion when setting them up. Using the frequencies and channels specified in the manual, L4 is adjusted with Channel 4 (7.999) set, L5 with Channel 5 (17.999) set and L6 with Channel 3 (29.999)set.
>
> John
>

87. Re: Out of lock light...

Yahoo group: RA1778
Date: 2013-01-06 22:32:09 UTC
From: gw4frx
Topic: 76 Message: 87

>The led is on irrespective in all frequencies.<

In that case it probably isn't a VCO issue.

I don't have an RA1772 manual available so can't check the alignment instructions. From memory the RA1778 alignment procedure is very similar and I believe there's a manual available on here.

>Here I have a question, Should not be aligned L4 then L5 and L6 in this order? Or does it not matter the order? L6 L5 and L4 in this way.<

The order of adjustment doesn't matter but you need to adjust the correct inductor for each VCO. The RA1778 manual is certainly in error here and I believe the RA1772 manual is also. There is an undocumented test point located between L5 and L6 where the VCO voltages can be measured.

John

88. RA1778 for sale

Yahoo group: RA1778
Date: 2013-01-31 15:24:18 UTC
From: gw4frx
Topic: 88 Message: 88

I have a late ex-BBC RA1778 sitting in a corner of the office. It's complete and working but is a little tired.

My original intention was to restore it to better than factory-new condition but realistically I don't have time nowadays (and I've already restored four of them).

It's time this receiver found a good and caring home. Before I put it on eBay I thought I'd offer it to the cognoscenti ;-)

Please contact me directly if you're interested.

John

89. Re: Out of lock light...

Yahoo group: RA1778
Date: 2013-02-23 09:52:13 UTC
From: taidllanfair
Topic: 76 Message: 89

I think this thread now involves two different subjects and may appear confusing I initially posted as my `out of lock' light had stopped functioning then there was another posting relating to the poster's ool light being permanently on.

enriqueeeeee2001 ☐You say the ool led is connected between pin 36 and earth, it is actually between pin 36 and the +5 volt rail (see Racal Maintainance Manual 2 Interconnections figure 52).

I think I may have sorted my problem, i.e. ool light always off. I initially lifted D5 as John suggested a problem here could have blanked the ool light but that had no effect. I subsequently found that the led itself was the problem, temporarily fitting another and the ool light now operates normally, i.e. it is off just flashing briefly as I tune. Checking the old one with an ohm meter shows infinite resistance in one direction and a slightly decreased resistance in the other direction, not too different from a known good led.

Now the next question: is there an easy way to change this? I suspect the answer is no! Will I have to remove the display board? I suspect the answer is yes! I don't know what size the fixing nuts are but I have two sets of small sockets here but none of these fit.

Incidentally looking down from the front of the receiver, obviously with the top cover removed, there is an insulated stand off immediately to the right of the display board. The connections from the ool led are connected here so it's a convenient point to check the led and confirm the supply is present.

Thanks to everyone for their input.

John

--- In RA1778@yahoogroups.com, "gw4frx" <honeyway@...> wrote:
>
> >The led is on irrespective in all frequencies.<
>
> In that case it probably isn't a VCO issue.
>
> I don't have an RA1772 manual available so can't check the alignment instructions. From memory the RA1778 alignment procedure is very similar and I believe there's a manual available on here.
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> >Here I have a question, Should not be aligned L4 then L5 and L6 in this order? Or does it not matter the order? L6 L5 and L4 in this way.<
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>
> John
>

90. Re: [RA1778] Re: Out of lock light...

Yahoo group: RA1778
Date: 2013-02-23 20:25:55 UTC
From: Enrique Fernandez García
Topic: 76 Message: 90

Hello John,

  You are right, I have checked the manual and is between pin 36 and 40. I have just checked the voltage and is always 4,85 volts, of course I have been spinning the knob.

 I have still not replaced the old blew led. I recommend you to take lot of photos before removing the display board, the thin wires are very prone to desolder.

Regards.

--- El sáb, 23/2/13, taidllanfair <john@...> escribió:

De: taidllanfair <john@...>
Asunto: [RA1778] Re: Out of lock light...
Para: RA1778@yahoogroups.com
Fecha: sábado, 23 de febrero, 2013 10:52

I think this thread now involves two different subjects and may appear confusing… I initially posted as my `out of lock' light had stopped functioning then there was another posting relating to the poster's ool light being permanently on.

enriqueeeeee2001 –You say the ool led is connected between pin 36 and earth, it is actually between pin 36 and the +5 volt rail (see Racal Maintainance Manual 2 Interconnections figure 52).

I think I may have sorted my problem, i.e. ool light always off. I initially lifted D5 as John suggested a problem here could have blanked the ool light but that had no effect. I subsequently found that the led itself was the problem, temporarily fitting another and the ool light now operates normally, i.e. it is off just flashing briefly as I tune. Checking the old one with an ohm meter shows infinite resistance in one direction and a slightly decreased resistance in the other direction, not too different from a known good led.

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Thanks to everyone for their input.

John

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>
> John
>

Yahoo! Groups Links

91. Re: Out of lock light...

Yahoo group: RA1778
Date: 2013-03-05 20:37:08 UTC
From: taidllanfair
Topic: 76 Message: 91

Hello Enrique,

No, the out of lock led is connected between pin 36 and the 5 volt rail, not pin 36 and 40. Pin 40 is ground and the 5 volt rail is on pin 39. SO, the led goes between pins 36 and 39.

The led was broken on my RA1772 and I have replaced it. It is not an easy job, it just takes a lot of time! Incidentally you do not have to remove the display board, only lift it a little bit. The new led was too bright so I also included a small series resistor to reduce the voltage. The led is now working properly.

Good luck with your receiver!

John

--- In RA1778@yahoogroups.com, Enrique Fernandez GarcÃa<enriqueeeeee2001@...> wrote:
>
> Hello John,
> Â
> Â You are right, I have checked the manual and is between pin 36 and 40.Â I have just checked the voltage and is always 4,85 volts, of course I have been spinning the knob.
> Â
> Â I have still not replaced the old blew led. I recommend you to take lot of photos before removing the display board, the thin wires are very prone to desolder.
> Â
> Regards.
> Â
> Â
> Â
> Â
>
> --- El sÃ¡b, 23/2/13, taidllanfair <john@...> escribiÃ³:
>
>
> De: taidllanfair <john@...>
> Asunto: [RA1778] Re: Out of lock light...
> Para: RA1778@yahoogroups.com
> Fecha: sÃ¡bado, 23 de febrero, 2013 10:52
>
>
>
>
> I think this thread now involves two different subjects and may appear confusingâ☐¦ I initially posted as my `out of lock' light had stopped functioning then there was another posting relating to the poster's ool light being permanently on.
>

> enriqueeeeee2001 â□"You say the ool led is connected between pin 36 and earth, it is actually between pin 36 and the +5 volt rail (see Racal Maintainance Manual 2 Interconnections figure 52).Â
>
> I think I may have sorted my problem, i.e. ool light always off.Â I initially lifted D5 as John suggested a problem here could have blanked the ool light but that had no effect. I subsequently found that the led itself was the problem, temporarily fitting another and the ool light now operates normally, i.e. it is off just flashing briefly as I tune.Â Checking the old one with an ohm meter shows infinite resistance in one direction and a slightly decreased resistance in the other direction, not too different from a known good led.
>
> Now the next question: is there an easy way to change this?Â I suspect the answer is no!Â Will I have to remove the display board?Â I suspect the answer is yes!Â I don't know what size the fixing nuts are but I have two sets of small sockets here but none of these fit.
>
> Incidentally looking down from the front of the receiver, obviously with the top cover removed, there is an insulated stand off immediately to the right of the display board.Â The connections from the ool led are connected here so it's a convenient point to check the led and confirm the supply is present.
>
> Thanks to everyone for their input.
>
> John
>
>
>
>
>
> --- In RA1778@yahoogroups.com, "gw4frx" <honeyway@> wrote:
> >
> > >The led is on irrespective in all frequencies.<
> >
> > In that case it probably isn't a VCO issue.
> >
> > I don't have an RA1772 manual available so can't check the alignment instructions. From memory the RA1778 alignment procedure is very similar and I believe there's a manual available on here.
> >
> > >Here I have a question, Should not be aligned L4 then L5 and L6Â in this order? Or does it not matter the order? L6 L5 and L4 in this way.<
> >
> > The order of adjustment doesn't matter but you need to adjust the correct inductor for each VCO. The RA1778 manual is certainly in error here and I believe the RA1772 manual is also. There is an undocumented test point located between L5 and L6 where the VCO voltages can be measured.
> >
> > John
> >
>
>
>
>
> ------------------------------------
>

> Yahoo! Groups Links
>

92. Re: Out of lock light...

Yahoo group: RA1778
Date: 2013-03-07 17:33:30 UTC
From: enriqueeeeee2001
Topic: 76 Message: 92

Hello John,

Thank you , you are right the led goes between 36 and 39 pins.

I have tested it with a led between these but not luck, now the led is always off, and it happens the same as yours just flashing briefly as I tune, I want to say that when the tuning knob is spinning the led is on.

I have made some measures between 36 and 39 pins: Tuning knob without spinning : 0 v
Spinning: 2v Pin 36 and ground: 4,85 v
Pin 39 and ground: 4,85 v I still have not replaced the old led,temporaly I have fitted one on the PCB.

Regards

--- In RA1778@yahoogroups.com, "taidllanfair" <john@...> wrote:
>
>
>
>
> Hello Enrique,
>
> No, the out of lock led is connected between pin 36 and the 5 volt rail, not pin 36 and 40. Pin 40 is ground and the 5 volt rail is on pin 39. SO, the led goes between pins 36 and 39.
>
> The led was broken on my RA1772 and I have replaced it. It is not an easy job, it just takes a lot of time! Incidentally you do not have to remove the display board, only lift it a little bit. The new led was too bright so I also included a small series resistor to reduce the voltage. The led is now working properly.
>
> Good luck with your receiver!
>
> John
>
>
> --- In RA1778@yahoogroups.com, Enrique Fernandez GarcÃa<enriqueeeeee2001@> wrote:
> >
> > Hello John,
> > Â
> > Â You are right, I have checked the manual and is between pin 36 and 40.Â I have just checked the voltage and is always 4,85 volts, of course I have been spinning the knob.
> > Â
> > Â I have still not replaced the old blew led. I recommend you to take lot of photos before removing the display board, the thin wires are very prone to desolder.
> > Â
> > Regards.

> > Â
> > Â
> > Â
> > Â
> >
> > --- El sÃ¡b, 23/2/13, taidllanfair <john@> escribiÃ³:
> >
> >
> > De: taidllanfair <john@>
> > Asunto: [RA1778] Re: Out of lock light...
> > Para: RA1778@yahoogroups.com
> > Fecha: sÃ¡bado, 23 de febrero, 2013 10:52
> >
> >
> >
> >
> > I think this thread now involves two different subjects and may appear confusingâ☐¦ I initially posted as my `out of lock' light had stopped functioning then there was another posting relating to the poster's ool light being permanently on.
> >
> > enriqueeeeee2001 â☐"You say the ool led is connected between pin 36 and earth, it is actually between pin 36 and the +5 volt rail (see Racal Maintainance Manual 2 Interconnections figure 52).Â
> >
> > I think I may have sorted my problem, i.e. ool light always off.Â I initially lifted D5 as John suggested a problem here could have blanked the ool light but that had no effect. I subsequently found that the led itself was the problem, temporarily fitting another and the ool light now operates normally, i.e. it is off just flashing briefly as I tune.Â Checking the old one with an ohm meter shows infinite resistance in one direction and a slightly decreased resistance in the other direction, not too different from a known good led.
> >
> > Now the next question: is there an easy way to change this?Â I suspect the answer is no!Â Will I have to remove the display board?Â I suspect the answer is yes!Â I don't know what size the fixing nuts are but I have two sets of small sockets here but none of these fit.
> >
> > Incidentally looking down from the front of the receiver, obviously with the top cover removed, there is an insulated stand off immediately to the right of the display board.Â The connections from the ool led are connected here so it's a convenient point to check the led and confirm the supply is present.
> >
> > Thanks to everyone for their input.
> >
> > John
> >
> >
> >
> >
> >
> > --- In RA1778@yahoogroups.com, "gw4frx" <honeyway@> wrote:
> > >
> > > >The led is on irrespective in all frequencies.<
> > >

> > > In that case it probably isn't a VCO issue.
> > >
> > > I don't have an RA1772 manual available so can't check the alignment instructions. From memory the RA1778 alignment procedure is very similar and I believe there's a manual available on here.
> > >
> > > >Here I have a question, Should not be aligned L4 then L5 and L6Â in this order? Or does it not matter the order? L6 L5 and L4 in this way.<
> > >
> > > The order of adjustment doesn't matter but you need to adjust the correct inductor for each VCO. The RA1778 manual is certainly in error here and I believe the RA1772 manual is also. There is an undocumented test point located between L5 and L6 where the VCO voltages can be measured.
> > >
> > > John
> > >
> >
> >
> >
> >
> > ---
> >
> > Yahoo! Groups Links
> >
>

93. Roofing filter

Yahoo group: RA1778
Date: 2013-04-10 17:50:23 UTC
From: taidllanfair
Topic: 93 Message: 93

Hello,

Been quiet on here lately...

In a previous mail John G3NCN mentioned the roofing filter fitted in the Racal's 37.5 IF. I wonder what bandwidth this is? Was the same bandwidth always fitted? As the receiver is capable of am reception I presume it must be reasonably wide?

Not being too knowledgeable of such circuitry, did other manufacturers fit these filters at this time? I know that modern (supposedly upmarket) ham rigs have roofing filters fitted - and the manufacturers would have you believe that this is some new-fangled development...!

They do say there's nothing new under the sun.

Incidentally my RA1772 was fitted with 0.3, 1 and 8kc/s filters, I replaced the 1 with a 3 kc/s and the two wider ones work well on am. I picked up the 3 on eBay.

At a recent ham radio Rally I noticed a guy selling filters in Racal boxes, these were 9 kc/s wide, I'd never heard of 9 kc/s filters before.

If John 'NCN is around I may get some answers straight from the horse's mouth...

John

94. Re: [RA1778] Roofing filter

Yahoo group: RA1778
Date: 2013-04-10 18:05:29 UTC
From: John Ellerton
Topic: 93 Message: 94

The roofing filter is 35.4MHz +/- 6.3 KHz. And yes, a number of manufacturers started to use roofing filters.
Today's receivers use narrower roofing filters because the architecture of new receivers allows it.
John G3NCN

On 10 Apr 2013, at 18:50, taidllanfair wrote:

> Hello,
>
> Been quiet on here lately...
>
> In a previous mail John G3NCN mentioned the roofing filter fitted in
> the Racal's 37.5 IF. I wonder what bandwidth this is? Was the same
> bandwidth always fitted? As the receiver is capable of am reception
> I presume it must be reasonably wide?
>
> Not being too knowledgeable of such circuitry, did other
> manufacturers fit these filters at this time? I know that modern
> (supposedly upmarket) ham rigs have roofing filters fitted - and the
> manufacturers would have you believe that this is some new-fangled
> development...!
>
> They do say there's nothing new under the sun.
>
> Incidentally my RA1772 was fitted with 0.3, 1 and 8kc/s filters, I
> replaced the 1 with a 3 kc/s and the two wider ones work well on am.
> I picked up the 3 on eBay.
>
> At a recent ham radio Rally I noticed a guy selling filters in Racal
> boxes, these were 9 kc/s wide, I'd never heard of 9 kc/s filters
> before.
>
> If John 'NCN is around I may get some answers straight from the
> horse's mouth...
>
> John
>
>

95. Re: Roofing filter

Yahoo group: RA1778
Date: 2013-04-10 19:10:47 UTC
From: taidllanfair
Topic: 93 Message: 95

Thanks for the quick reply John.

I'm just feeling my way 'round this receiver and trying to appreciate it's finer points. I have two of these actually - sad person that I am!

I did look at an RA1792 over the weekend but the word 'fault' in the display scared me off - probably better off with the RA1772 anyway...

Thanks again

John GW3VVC

--- In RA1778@yahoogroups.com, John Ellerton <g3ncn@...> wrote:
>
> The roofing filter is 35.4MHz +/- 6.3 KHz. And yes, a number of
> manufacturers started to use roofing filters.
> Today's receivers use narrower roofing filters because the
> architecture of new receivers allows it.
> John G3NCN
>
>
> On 10 Apr 2013, at 18:50, taidllanfair wrote:
>
> > Hello,
> >
> > Been quiet on here lately...
> >
> > In a previous mail John G3NCN mentioned the roofing filter fitted in
> > the Racal's 37.5 IF. I wonder what bandwidth this is? Was the same
> > bandwidth always fitted? As the receiver is capable of am reception
> > I presume it must be reasonably wide?
> >
> > Not being too knowledgeable of such circuitry, did other
> > manufacturers fit these filters at this time? I know that modern
> > (supposedly upmarket) ham rigs have roofing filters fitted - and the
> > manufacturers would have you believe that this is some new-fangled
> > development...!
> >
> > They do say there's nothing new under the sun.
> >
> > Incidentally my RA1772 was fitted with 0.3, 1 and 8kc/s filters, I
> > replaced the 1 with a 3 kc/s and the two wider ones work well on am.
> > I picked up the 3 on eBay.
> >
> > At a recent ham radio Rally I noticed a guy selling filters in Racal
> > boxes, these were 9 kc/s wide, I'd never heard of 9 kc/s filters

> > before.
> >
> > If John 'NCN is around I may get some answers straight from the
> > horse's mouth...
> >
> > John
> >
> >
>

96. Re: [RA1778] Re: Roofing filter

Yahoo group: RA1778
Date: 2013-04-11 08:24:50 UTC
From: John Ellerton
Topic: 93 Message: 96

I'm glad to have been able to advise, John. I spent some very happy years with the 1770/1780 series of receivers, the clever people came along and took over the reins, where I went on to systems engineering. But receivers were always the love of my life, and still are, even at the tender age of 75!!!
73, John
de John G3NCN

On 10 Apr 2013, at 20:10, taidllanfair wrote:

>
>
> Thanks for the quick reply John.
>
> I'm just feeling my way 'round this receiver and trying to
> appreciate it's finer points. I have two of these actually - sad
> person that I am!
>
> I did look at an RA1792 over the weekend but the word 'fault' in the
> display scared me off - probably better off with the RA1772 anyway...
>
> Thanks again
>
> John GW3VVC
>
> --- In RA1778@yahoogroups.com, John Ellerton <g3ncn@...> wrote:
> >
> > The roofing filter is 35.4MHz +/- 6.3 KHz. And yes, a number of
> > manufacturers started to use roofing filters.
> > Today's receivers use narrower roofing filters because the
> > architecture of new receivers allows it.
> > John G3NCN
> >
> >
> > On 10 Apr 2013, at 18:50, taidllanfair wrote:
> >
> > > Hello,
> > >
> > > Been quiet on here lately...
> > >
> > > In a previous mail John G3NCN mentioned the roofing filter
> fitted in
> > > the Racal's 37.5 IF. I wonder what bandwidth this is? Was the same
> > > bandwidth always fitted? As the receiver is capable of am
> reception

> > > I presume it must be reasonably wide?
> > >
> > > Not being too knowledgeable of such circuitry, did other
> > > manufacturers fit these filters at this time? I know that modern
> > > (supposedly upmarket) ham rigs have roofing filters fitted - and
> the
> > > manufacturers would have you believe that this is some new-fangled
> > > development...!
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> > > They do say there's nothing new under the sun.
> > >
> > > Incidentally my RA1772 was fitted with 0.3, 1 and 8kc/s filters, I
> > > replaced the 1 with a 3 kc/s and the two wider ones work well on
> am.
> > > I picked up the 3 on eBay.
> > >
> > > At a recent ham radio Rally I noticed a guy selling filters in
> Racal
> > > boxes, these were 9 kc/s wide, I'd never heard of 9 kc/s filters
> > > before.
> > >
> > > If John 'NCN is around I may get some answers straight from the
> > > horse's mouth...
> > >
> > > John
> > >
> > >
> >
>
>

97. Modifying a RA1772 to ISB

Yahoo group: RA1778
Date: 2013-04-27 10:14:04 UTC
From: la6uy
Topic: 97 Message: 97

Hello all.

I am a new member of the group and I have two RA1772.

One is rather worse for wear, having lived in a smoking environment for 28 years used 24/7 inside a very hot 19 inch desktop rack. The other has seemingly been kept in a box since made, spotlessly clean inside/out, but equipped for RTTY, with no AFC / ISB. The used one has been having problems over the years, with the AFC (cabling related) and the Frequency Standard (swapped with a non-Racal part).

What I'd like to do, is to move its AFC-board and the carrier filter to the new one, and also move the IF/AF board from the old one to the new one, in the ISB IF/AF slot. I am wondering if I need to physically remove all parts related to the speaker amplifier or if it would be sufficient to isolate the output of the speaker amplifier, pin 16 & 19 to make it work like a PM364/3?

I would think at this stage that there is no availability of spare PM364/3 cards, except taking them from non-working equipment?

Any feedback would be appreciated.

Brynjar Berg LA6UY

98. Re: RA1772 Filter question

Yahoo group: RA1778
Date: 2013-04-25 07:55:29 UTC
From: la6uy
Topic: 67 Message: 98

--- In RA1778@yahoogroups.com, John Ellerton <g3ncn@...> wrote:
.....
> The original AM filter was sometimes a 13kHz so that the audio
> bandwidth was 6kHz, primarily for broadcast reception. The roofing
> filter in the 37.5 IF is of a similar bandwidth.
> John G3NCN. (original designer)

I just obtained a RA 1772 in nearly pristine condition that have had a new 1st Mixer board (PM 512) fitted in 1988. According to the documentation (sparse) in the Maintenance Manual, this is switched in when using symetrical filters of less than 1 kHz bandwidth. Have been trying to fin more info on the net, but no luck so far. Does anyone have any details?? Seems Racal were way ahead of the rest in this regard :) .

73,
Brynjar LA6UY

99. Re: [RA1778] Re: RA1772 Filter question

Yahoo group: RA1778
Date: 2013-04-27 14:16:44 UTC
From: John Ellerton
Topic: 67 Message: 99

Hallo Brynjar.
The AFC board should transfer without problem, if you also fit the AFC carrier filter on the Filter board.
The IF / AF board should also transfer without a problem, as far ass I can remember, because any change to IF AF boards
would have had to be backwards compatible with the chassis wiring. If you are using an IF AF board with a speaker amp
in the ISB compartment, it would be sufficient to isolate the speaker output - this would be done anyway, because the receiver wiring should not have speaker leads in the ISB compartment. However, I would suggest isolating the input of the speaker amp or removing a supply resistor on the IF board to avoid unnecessary supply drain otherwise associated with that amplifier.
I hope this helps. I was the designer of this receiver - but not the digital areas, some 40+ years ago, so I hope my memories are correct.
As for the first mixer, this stayed the same whatever selectivity filters where fitted to the Filter board. The roofing filter bandwidth was
13KHz approximately.
I hope this helps, Brynjar.

John Ellerton G3NCN

On 25 Apr 2013, at 08:55, la6uy wrote:

>
>
> --- In RA1778@yahoogroups.com, John Ellerton <g3ncn@...> wrote:
> .....
> > The original AM filter was sometimes a 13kHz so that the audio
> > bandwidth was 6kHz, primarily for broadcast reception. The roofing
> > filter in the 37.5 IF is of a similar bandwidth.
> > John G3NCN. (original designer)
>
> I just obtained a RA 1772 in nearly pristine condition that have had
> a new 1st Mixer board (PM 512) fitted in 1988. According to the
> documentation (sparse) in the Maintenance Manual, this is switched
> in when using symetrical filters of less than 1 kHz bandwidth. Have
> been trying to fin more info on the net, but no luck so far. Does
> anyone have any details?? Seems Racal were way ahead of the rest in
> this regard :) .
>
> 73,
> Brynjar LA6UY
>
>

100. Re: RA1772 Filter question

Yahoo group: RA1778
Date: 2013-04-27 16:26:49 UTC
From: la6uy
Topic: 67 Message: 100

Hi John,

Thanks a lot for your rapid response to my questions. I see I will have to do the ISB & AFC moves then.

You might have misunderstood me about the 1st mixer. In the Maintenance Manual that I received with my receivers last week there was an appendix detailing the
"Fitting of a new 1st Mixer Board (PM 512)"
"The new board has an extra roofing filter fitted
"to it which may be selected when the symetrical
"filter in use is of less than 1 kHz bandwidth.
"This enables extra selectivity to be achieved
"on low level CW and FSK signals when working
"in crowded bands.

The appendix seems to be a photocopy of a typewritten set of instructions with hand-drawn illustrations of the mechanical details and switch connections.

I have since found one reference on internet, Dan Rae, in the Premium-Rx group a while ago:
"Thanks to a generous list member my 1772 is now fitted with a first
mixer board with switchable roofing filters, the usual 12 kHz one and a narrow 1.5 kHz one which switches in automatically with narrow IF
bandwidths. This was built in 1978, several decades before Yaesu and Co were doing it. "

I was wondering if anyone would have the Circuit drawings & Board layout of this unit. I will open up that receiver and take a picture in a couple of days, but the drawings would be nice to have.

Best regards,
Brynjar LA6UY

--- In RA1778@yahoogroups.com, John Ellerton <g3ncn@...> wrote:
....
> As for the first mixer, this stayed the same whatever selectivity
> filters where fitted to the Filter board. The roofing filter bandwidth
> was
> 13KHz approximately.
> I hope this helps, Brynjar.
>
> John Ellerton G3NCN
>
>

102. Re: [RA1778] Re: RA1772 Filter question

Yahoo group: RA1778
Date: 2013-04-28 08:28:53 UTC
From: John Raymond Dore
Topic: 67 Message: 102

The circuit for PS512 is available in the manual for the RA1784 Part 3
Fig3.1
Chapter 3 gives the description and parts list
There is also a board layout
John GW3XPK

On 27 April 2013 17:26, la6uy <la6uy@...> wrote:

> **
>
>
> Hi John,
>
> Thanks a lot for your rapid response to my questions. I see I will have to
> do the ISB & AFC moves then.
>
> You might have misunderstood me about the 1st mixer. In the Maintenance
> Manual that I received with my receivers last week there was an appendix
> detailing the
> "Fitting of a new 1st Mixer Board (PM 512)"
> "The new board has an extra roofing filter fitted
> "to it which may be selected when the symetrical
> "filter in use is of less than 1 kHz bandwidth.
> "This enables extra selectivity to be achieved
> "on low level CW and FSK signals when working
> "in crowded bands.
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> The appendix seems to be a photocopy of a typewritten set of instructions
> with hand-drawn illustrations of the mechanical details and switch
> connections.
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> I have since found one reference on internet, Dan Rae, in the Premium-Rx
> group a while ago:
> "Thanks to a generous list member my 1772 is now fitted with a first
> mixer board with switchable roofing filters, the usual 12 kHz one and a
> narrow 1.5 kHz one which switches in automatically with narrow IF
> bandwidths. This was built in 1978, several decades before Yaesu and Co
> were doing it. "
>
> I was wondering if anyone would have the Circuit drawings & Board layout
> of this unit. I will open up that receiver and take a picture in a couple
> of days, but the drawings would be nice to have.
>
> Best regards,
> Brynjar LA6UY

>
>
> --- In RA1778@yahoogroups.com, John Ellerton <g3ncn@...> wrote:
> ....
> > As for the first mixer, this stayed the same whatever selectivity
> > filters where fitted to the Filter board. The roofing filter bandwidth
> > was
> > 13KHz approximately.
> > I hope this helps, Brynjar.
> >
> > John Ellerton G3NCN
> >
> >
>
>
>

103. Re: [RA1778] Re: RA1772 Filter question

Yahoo group: RA1778
Date: 2013-04-28 09:13:26 UTC
From: John Ellerton
Topic: 67 Message: 103

Thank you John. I had forgotten the new first mixer for RA1784. I'm
afraid memory fades with age and the years!
John G3NCN

On 28 Apr 2013, at 09:28, John Raymond Dore wrote:

>
> The circuit for PS512 is available in the manual for the RA1784
> Part 3 Fig3.1
> Chapter 3 gives the description and parts list
> There is also a board layout
> John GW3XPK
>
>
> On 27 April 2013 17:26, la6uy <la6uy@...> wrote:
>
> Hi John,
>
> Thanks a lot for your rapid response to my questions. I see I will
> have to do the ISB & AFC moves then.
>
> You might have misunderstood me about the 1st mixer. In the
> Maintenance Manual that I received with my receivers last week there
> was an appendix detailing the
> "Fitting of a new 1st Mixer Board (PM 512)"
> "The new board has an extra roofing filter fitted
> "to it which may be selected when the symetrical
> "filter in use is of less than 1 kHz bandwidth.
> "This enables extra selectivity to be achieved
> "on low level CW and FSK signals when working
> "in crowded bands.
>
> The appendix seems to be a photocopy of a typewritten set of
> instructions with hand-drawn illustrations of the mechanical details
> and switch connections.
>
> I have since found one reference on internet, Dan Rae, in the
> Premium-Rx group a while ago:
> "Thanks to a generous list member my 1772 is now fitted with a first
> mixer board with switchable roofing filters, the usual 12 kHz one
> and a narrow 1.5 kHz one which switches in automatically with narrow
> IF
> bandwidths. This was built in 1978, several decades before Yaesu and
> Co were doing it. "
>

> I was wondering if anyone would have the Circuit drawings & Board
> layout of this unit. I will open up that receiver and take a picture
> in a couple of days, but the drawings would be nice to have.
>
> Best regards,
> Brynjar LA6UY
>
>
>
> --- In RA1778@yahoogroups.com, John Ellerton <g3ncn@...> wrote:
> ....
> > As for the first mixer, this stayed the same whatever selectivity
> > filters where fitted to the Filter board. The roofing filter
> bandwidth
> > was
> > 13KHz approximately.
> > I hope this helps, Brynjar.
> >
> > John Ellerton G3NCN
> >
> >
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>

104. Re: [RA1778] Re: RA1772 Filter question

Yahoo group: RA1778
Date: 2013-04-28 14:34:11 UTC
From: Brynjar LA6UY
Topic: 67 Message: 104

Hi John GW3XP,

Thanks a lot. That is just what I need.
Do you know if a copy is available somewhere on
the net? I have been unable to find one so far.
Brynjar

28.04.2013 10:28, John Raymond Dore wrote:
> The circuit for PS512 is available in the manual
> for the RA1784 Part 3 Fig3.1
> Chapter 3 gives the description and parts list
> There is also a board layout
> John GW3XPK

105. RA1778 (and RA1771/RA1772) Frequency errors magnified

Yahoo group: RA1778
Date: 2013-05-12 14:35:22 UTC
From: John Raymond Dore
Topic: 105 Message: 105

If the derived reference or externally injected reference 1MHz is 1000000.01 then when 29999990 is selected the local oscillator is at 65399990.6546 ie the error is magnified by 65 times. At the other extreme frequency the error is about half. I will therefore propose to feed the frequency reference from an accurate external source ie R&S caesium radio locked rubidium reference. I will also feed the 34MHz from an HP 3335A which will allow 1mHz resolution again with the 3335A phase locked to my stable frequency source. This way I can have very narrow bandwidth reception by knowing my absolute frequency to a high degree. It also means that it is easy to operate as the offset is directly read from the 3335A. I am also not restricted to the 10Hz nominal resolution of the RA1778 but get any frequency to nominally 1mHz resolution.
I can also modify an MA1720 hf exciter to use the same revised 34MHz and LO. I just wonder how many people there are out there who may choose to experiment with very narrow bandwidth and are concerned with this degree of accuracy.
It is a fun thing to do!
John GW3XPK johnrdore@...

106. Damaged meter glass

Yahoo group: RA1778
Date: 2013-05-25 15:52:31 UTC
From: taidllanfair
Topic: 106 Message: 106

Hi,

Took my RA1772 to the local ham radio club a few nights ago and during its travels it appears to have had a knock and the meter panel glass is cracked.

Removing it is going to be a pain and I'll need to source suitable replacement glass, or perhaps some clear plastic.

Anyone done this repair before and can offer me any hints and/or ideas?

John

107. Re: Damaged meter glass

Yahoo group: RA1778
Date: 2013-05-25 17:38:16 UTC
From: davidg4irq
Topic: 106 Message: 107

--- In RA1778@yahoogroups.com, "taidllanfair" <john@...> wrote:
>
> Hi,
>
> Took my RA1772 to the local ham radio club a few nights ago and during its travels it appears to have had a knock and the meter panel glass is cracked.
>
> Removing it is going to be a pain and I'll need to source suitable replacement glass, or perhaps some clear plastic.
>
> Anyone done this repair before and can offer me any hints and/or ideas?
>
> John
>

Hi John,

I have a complete spare meter for the 1772 which you are welcome to have. Just PM me your address.

Fitment would be the same as taking the damaged meter out for repair ie:

1. Remove all knobs.

2. Disconnect the meter leads from the back of the meter (red on the left, black on the right)

5. On the front panel, remove the 8 cross-head screws to release it from the chassis, 3 at each end and two from the centre. You do not need to remove the recessed cross-head you will find at each end of the panel.

6. Pull the front panel gently forward and remove it, complete with meter, from the chassis.

7. The meter is secured to the front panel from behind by 2 small nuts, one at the top right and the other at the bottom left of the meter.

8. When re-assembling, it is easier to sit the radio upright on its heatsink to fit the cross-head screws.

BTW This is also a good time to clean the display LEDs and the inside of the red filter, they can collect quite a bit of dirt over the years.

73 de David

108. Re: Damaged meter glass

Yahoo group: RA1778
Date: 2013-05-25 18:11:40 UTC
From: taidllanfair
Topic: 106 Message: 108

David,

Thanks for the quick reply and the very kind offer.
Have pm'd you.

Thanks again.

John

--- In RA1778@yahoogroups.com, "davidg4irq" <d.bobbett@...> wrote:
>
>
>
> --- In RA1778@yahoogroups.com, "taidllanfair" <john@> wrote:
> >
> > Hi,
> >
> > Took my RA1772 to the local ham radio club a few nights ago and during its travels it appears to have had a knock and the meter panel glass is cracked.
> >
> > Removing it is going to be a pain and I'll need to source suitable replacement glass, or perhaps some clear plastic.
> >
> > Anyone done this repair before and can offer me any hints and/or ideas?
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> > John
> >
>
>
>
>
> Hi John,
>
> I have a complete spare meter for the 1772 which you are welcome to have. Just PM me your address.
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> Fitment would be the same as taking the damaged meter out for repair ie:
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will find at each end of the panel.
>
> 6. Pull the front panel gently forward and remove it, complete with meter, from the chassis.
>
> 7. The meter is secured to the front panel from behind by 2 small nuts, one at the top right and the other at the bottom left of the meter.
>
> 8. When re-assembling, it is easier to sit the radio upright on its heatsink to fit the cross-head screws.
>
>
>
> BTW This is also a good time to clean the display LEDs and the inside of the red filter, they can collect quite a bit of dirt over the years.
>
>
> 73 de David
>

109. Racal RA1781 remote receiver

Yahoo group: RA1778
Date: 2013-08-20 20:01:14 UTC
From: taidllanfair
Topic: 109 Message: 109

Hello,

I've ocasionally seen these being offered for sale and wonder what if anything they are worth. Presumably some of the boards and maybe the mains transformer could be used in the RA1772/1778 models?

Just thinking whether they would be useful for spares.

110. Re: [RA1778] Racal RA1781 remote receiver

Yahoo group: RA1778
Date: 2013-08-20 20:29:58 UTC
From: John Ellerton
Topic: 109 Message: 110

Hallo. TLF. The RA 1781 receiver was a blank panel completely
remote receiver. None of the RA1772/1778 panel components are there.
The IF boards are redesigned, so that they provide spares only by
transferring some of the components. The synthesiser boards, (HF ,
transfer, upper and lower loop boards) are common, also the 34Mhz
board is common. The first and second mixer boards were also
commonThe power supply is also common to both receivers, as I
remember. It was 40 years ago!
RA1781 was controlled by computer, so RACAL provided no controller.

John G3NCN

On 20 Aug 2013, at 21:01, taidllanfair wrote:

> Hello,
>
> I've ocasionally seen these being offered for sale and wonder what
> if anything they are worth. Presumably some of the boards and maybe
> the mains transformer could be used in the RA1772/1778 models?
>
> Just thinking whether they would be useful for spares.
>
>

111. Re: Racal RA1781 remote receiver

Yahoo group: RA1778
Date: 2013-08-20 20:51:37 UTC
From: taidllanfair
Topic: 109 Message: 111

Thanks for the interesting information John.

So if suitable software was available an RA1781 could be driven from a PC? I've never seen or heard of suitable software so presumably it would have to be written by the user - rules me out !!!

Thanks again

J

--- In RA1778@yahoogroups.com, John Ellerton <g3ncn@...> wrote:
>
> Hallo. TLF. The RA 1781 receiver was a blank panel completely
> remote receiver. None of the RA1772/1778 panel components are there.
> The IF boards are redesigned, so that they provide spares only by
> transferring some of the components. The synthesiser boards, (HF ,
> transfer, upper and lower loop boards) are common, also the 34Mhz
> board is common. The first and second mixer boards were also
> commonThe power supply is also common to both receivers, as I
> remember. It was 40 years ago!
> RA1781 was controlled by computer, so RACAL provided no controller.
>
> John G3NCN
>
> On 20 Aug 2013, at 21:01, taidllanfair wrote:
>
> > Hello,
> >
> > I've ocasionally seen these being offered for sale and wonder what
> > if anything they are worth. Presumably some of the boards and maybe
> > the mains transformer could be used in the RA1772/1778 models?
> >
> > Just thinking whether they would be useful for spares.
> >
> >
>

112. Re: [RA1778] Re: Racal RA1781 remote receiver

Yahoo group: RA1778
Date: 2013-08-21 04:48:13 UTC
From: John Ellerton
Topic: 109 Message: 112

Yes , TDF, the control words were very long and complex, and written by the user. Data has come a long way since then!

John, G3NCN

On 20 Aug 2013, at 21:51, taidllanfair wrote:

>

113. RA37xx Spares

Yahoo group: RA1778
Date: 2013-08-22 20:15:58 UTC
From: davesc50
Topic: 113 Message: 113

Hi,

Sorry if this is off topic, so I'll be quick.I'm looking for a set of key caps for a Racal RA-37xx series radio.I've just acquired an RA-3792 with a new front panel, but no key caps. They are a standard Cherry MX series switch, but the caps are smaller than a PC keyboard. They measure 15x15mm at the base for small caps, and 15x23mm for the large ones.

www.ra1792.co.uk/radios/keys/small1.jpg

www.ra1792.co.uk/radios/keys/big1.jpg

I am looking for a set, or a supplier. Or alternately another product that uses the same physical key. I don't care about colour or legend, I can respray, and reprint.

Any of the RA37xx series units including controllers, and transmitters /exciters use the same keys, so any help much appreciated.

Thanks in advance,
Dave. S.

114. RACAL RA6778c

Yahoo group: RA1778
Date: 2013-10-19 14:23:38 UTC
From: <bim.huck@...>
Topic: 114 Message: 114

Hope you don’t mind a question about another great RACAL receiver.
I have acquired a RACAL RA6778c and I am looking for a service manual for it.
Failing that, someone told me their might be some similarity to the 1778. Does anyone have any further information on that.
Thanks….Jim

115. Re: [RA1778] RACAL RA6778c

Yahoo group: RA1778
Date: 2013-10-27 15:40:41 UTC
From: John Ellerton
Topic: 114 Message: 115

RA6778 must have been the USA version of RA1778. I so not have info about the availability of the manual - I suspect the only route is the internet, since RACAL are now long gone. They were bought up by Thompson of France, becoming THALES, and the line of Racal receivers was discontinued. But it could be that the pcbs used in 6778 were the same as 1778, in which case the circuits would be the same. But USA components would have been used.
Sorry for the late reply, but it took me a while to think about this - now 40 years ago.!!!

73, John G3NCN

On 19 Oct 2013, at 15:23, <bim.huck@...> <bim.huck@...> wrote:

>
> Hope you don’t mind a question about another great RACAL receiver.
>
> I have acquired a RACAL RA6778c and I am looking for a service
> manual for it.
>
> Failing that, someone told me their might be some similarity to the
> 1778. Does anyone have any further information on that.
>
> Thanks….Jim
>
>
>

116. Fwd: RACAL RA6778c

Yahoo group: RA1778
Date: 2013-10-27 17:30:21 UTC
From: John Raymond Dore
Topic: 116 Message: 116

---------- Forwarded message ----------
From: John Raymond Dore <johnrdore@...>
Date: 19 October 2013 17:07
Subject: Re: RACAL RA6778c
To: bim.huck@...

http://rigreference.com/en/rig/5407-Racal_RA_6778Q
Looks like this is a microprocessor controlled receiver which RA1778 is not.
Also it has a far finer frequency resolution 0.01 Hz versus 10Hz on the
RA1778
If you look on the filters fitted you may find they differ from the 1.4MHz
filter in the RA1778
My information on RA6778 is based on the above web link.
I imagine the c suffix versus the Q suffix is some variant like the set of
filters fitted.
If I find more I will let you know
John GW3XPK

117. Fwd: RACAL RA6778c

Yahoo group: RA1778
Date: 2013-10-27 17:32:26 UTC
From: John Raymond Dore
Topic: 116 Message: 117

---------- Forwarded message ----------
From: John Raymond Dore <johnrdore@...>
Date: 19 October 2013 17:31
Subject: Re: RACAL RA6778c
To: bim.huck@...

http://www.ve3kbr.com/newsletters/KAN_Mar_2012.pdf
More info here and the call sign of someone who wrote the report
VE3HST
Phil Somers
3439 LOUGHBOROUGH DRIVE
ELGINBURG, ON K0H 1M0
Canada
To write to him would be best
Better if you were to register with the QRZ web site first
Hope that helps
John GW3XPK

On 19 October 2013 17:07, John Raymond Dore <johnrdore@...> wrote:

> http://rigreference.com/en/rig/5407-Racal_RA_6778Q
> Looks like this is a microprocessor controlled receiver which RA1778 is
> not.
> Also it has a far finer frequency resolution 0.01 Hz versus 10Hz on the
> RA1778
> If you look on the filters fitted you may find they differ from the 1.4MHz
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> My information on RA6778 is based on the above web link.
> I imagine the c suffix versus the Q suffix is some variant like the set of
> filters fitted.
> If I find more I will let you know
> John GW3XPK
>

118. Re: [RA1778] Fwd: RACAL RA6778c

Yahoo group: RA1778
Date: 2013-10-27 17:51:33 UTC
From: casy_ch@tbwil.ch
Topic: 116 Message: 118

To my knowledge the US and UK receivers are not the same at all eventhough sometime times one feels the contrary because most of the technical datas read about the same. The US based company felt more like a competitor to the UK one.

By the way there are 3 different versions of the RA-6778, the A, B and C version which are not the same all over and the front panels are quite different. If you google you will find infos about them.

Jean-Claude, HB3YDH

Am 27.10.2013 18:30, schrieb John Raymond Dore:
>
>
> ---------- Forwarded message ----------
> From: *John Raymond Dore* <johnrdore@...
> <mailto:johnrdore@...>>
> Date: 19 October 2013 17:07
> Subject: Re: RACAL RA6778c
> To: bim.huck@... <mailto:bim.huck@...>
>
>
> http://rigreference.com/en/rig/5407-Racal_RA_6778Q
> Looks like this is a microprocessor controlled receiver which RA1778
> is not.
> Also it has a far finer frequency resolution 0.01 Hz versus 10Hz on
> the RA1778
> If you look on the filters fitted you may find they differ from the
> 1.4MHz filter in the RA1778
> My information on RA6778 is based on the above web link.
> I imagine the c suffix versus the Q suffix is some variant like the
> set of filters fitted.
> If I find more I will let you know
> John GW3XPK
>
>

119. Re: [RA1778] RACAL RA6778c

Yahoo group: RA1778
Date: 2013-10-27 20:14:20 UTC
From: John Ellerton
Topic: 116 Message: 119
Attachments: 1 described; binary payloads are missing from this source WARC

I watch the development of this info with interest. Normally the RA6000 series are UK RA1000 series, but americanised. But what you say interests me. One never stops learning - even when retired!!!
Thanks all.
John G3NCN

On 27 Oct 2013, at 17:51, casy_ch@... wrote:

> To my knowledge the US and UK receivers are not the same at all eventhough sometime times one feels the contrary because most of the technical datas read about the same. The US based company felt more like a competitor to the UK one.
>
> By the way there are 3 different versions of the RA-6778, the A, B and C version which are not the same all over and the front panels are quite different. If you google you will find infos about them.
>
> Jean-Claude, HB3YDH
>
>
> Am 27.10.2013 18:30, schrieb John Raymond Dore:
>>
>>
>>
>> ---------- Forwarded message ----------
>> From: John Raymond Dore <johnrdore@gmail.com>
>> Date: 19 October 2013 17:07
>> Subject: Re: RACAL RA6778c
>> To: bim.huck@...
>>
>>
>> http://rigreference.com/en/rig/5407-Racal_RA_6778Q
>> Looks like this is a microprocessor controlled receiver which RA1778 is not.
>> Also it has a far finer frequency resolution 0.01 Hz versus 10Hz on the RA1778
>> If you look on the filters fitted you may find they differ from the 1.4MHz filter in the RA1778
>> My information on RA6778 is based on the above web link.
>> I imagine the c suffix versus the Q suffix is some variant like the set of filters fitted.
>> If I find more I will let you know
>> John GW3XPK
>>
>
>
>

120. Re: [RA1778] RACAL RA6778c

Yahoo group: RA1778
Date: 2013-10-27 20:23:32 UTC
From: John Ellerton
Topic: 114 Message: 120
Attachments: 1 described; binary payloads are missing from this source WARC

I have just looked at the front panel of RA6778. I AGREE IT CAN BEAR NO RELATIONSHIP WITH THE 1778. The layout of the buttons is more reminiscent of the RA1792 (6792 ?).
But I don't know this one at all.

John G3NCN

On 27 Oct 2013, at 15:40, John Ellerton wrote:

> RA6778 must have been the USA version of RA1778. I so not have info about the availability of the manual - I suspect the only route is the internet, since RACAL are now long gone. They were bought up by Thompson of France, becoming THALES, and the line of Racal receivers was discontinued. But it could be that the pcbs used in 6778 were the same as 1778, in which case the circuits would be the same. But USA components would have been used.
>
> Sorry for the late reply, but it took me a while to think about this - now 40 years ago.!!!
>
> 73, John G3NCN
>
> On 19 Oct 2013, at 15:23, <bim.huck@...> <bim.huck@gmail.com> wrote:
>
>>
>>
>> Hope you don’t mind a question about another great RACAL receiver.
>>
>> I have acquired a RACAL RA6778c and I am looking for a service manual for it.
>>
>> Failing that, someone told me their might be some similarity to the 1778. Does anyone have any further information on that.
>>
>> Thanks….Jim
>>
>>
>
>
>

121. Re: [RA1778] RACAL RA6778c

Yahoo group: RA1778
Date: 2013-10-27 22:28:20 UTC
From: Chuck Urmson
Topic: 114 Message: 121

Hi All,

While I don't have any specific information on the RA6778C I do have some pointers that may be useful.??

As usual Fred Osterman's "Shortwave Receivers Past & Present" 3rd Edition ISBN 1-882123-07-7 should always be your first port of call.? Looking at the various Racal receivers in that reference it seems clear that the RA1772/RA1778 (UK build), RA6772 (USA build) and RA8772CB (Canadian build) are the receivers that this group knows and loves and are very similar to each other.?

The RA6778A/B/C and the RA6772E(R-2130/GRR) are very similar to each other but completely different to the RA1772 series.? I once owned an RA6775-10(R-2131(V)5/GRR) with MA6003 remote control which is also part of this range.? Unfortunately I sold my RA6775-10/MA6003 complete with a full set of manuals so I can't help further.? They all came out of the Racal Maryland(?) facility in the USA and were presumably built for those nice gentlemen that that read all our emails and listen to our phone calls etc.? Although they are digitally controlled they are not microprocessor controlled. They are are built from random logic (CD4000 series) which is a nightmare to debug (from personal experience).?

I have a funny feeling that the RA6778Q is based on the RA1784/MA1072 but have no evidence for that.?

Regards,
Chuck EA8DBU/M1DPD

On 27/10/2013 20:23, John Ellerton wrote:

I have just looked at the front panel of RA6778. ?I AGREE IT CAN BEAR NO RELATIONSHIP WITH THE 1778. ?The layout of the buttons is more reminiscent of the RA1792 ?(6792 ?).
But I don't know this one at all.

John G3NCN

On 27 Oct 2013, at 15:40, John Ellerton wrote:

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Sorry for the late reply, but it took me a while to think about this - now 40 years ago.!!!

73, ?John G3NCN

On 19 Oct 2013, at 15:23, <bim.huck@...> <bim.huck@...> wrote:

?

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I have acquired a RACAL RA6778c and I am looking for a service manual for it.

Failing that, someone told me their might be some similarity to the 1778. Does anyone have any further information on that.

Thanks….Jim

122. Re: [RA1778] RACAL RA6778c

Yahoo group: RA1778
Date: 2013-10-28 05:59:44 UTC
From: John Ellerton
Topic: 114 Message: 122
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Chuck. A very interesting comment. I was also deeply involved in the development of RA1780 series. (the RF aspects - others were involved in the synthesis and digital aspects) During the dev of this series, we produced an RA1782, which was manually controlled as well as being capable of remote control. This never progressed beyond A model stage, since it was deemed too expensive for the market here, and the RA1784/MA1072 became the centre of the series. All of these receivers in the 1780 series used CD4000 series logic, and yes, fault finding was a nightmare! I believe you are close to the truth about the relationship between the USA 6778 and this series of receivers. I had no knowledge of the USA development, whose numbers must have been separately allocated, bearing no relationship to the UK numbering system at all.

John G3NCN

On 27 Oct 2013, at 22:28, Chuck Urmson wrote:

>
> Hi All,
>
> While I don't have any specific information on the RA6778C I do have some pointers that may be useful.
>
> As usual Fred Osterman's "Shortwave Receivers Past & Present" 3rd Edition ISBN 1-882123-07-7 should always be your first port of call. Looking at the various Racal receivers in that reference it seems clear that the RA1772/RA1778 (UK build), RA6772 (USA build) and RA8772CB (Canadian build) are the receivers that this group knows and loves and are very similar to each other.
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> The RA6778A/B/C and the RA6772E(R-2130/GRR) are very similar to each other but completely different to the RA1772 series. I once owned an RA6775-10(R-2131(V)5/GRR) with MA6003 remote control which is also part of this range. Unfortunately I sold my RA6775-10/MA6003 complete with a full set of manuals so I can't help further. They all came out of the Racal Maryland(?) facility in the USA and were presumably built for those nice gentlemen that that read all our emails and listen to our phone calls etc. Although they are digitally controlled they are not microprocessor controlled. They are are built from random logic (CD4000 series) which is a nightmare to debug (from personal experience).
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> I have a funny feeling that the RA6778Q is based on the RA1784/MA1072 but have no evidence for that.
>
> Regards,
> Chuck EA8DBU/M1DPD
>
>
> On 27/10/2013 20:23, John Ellerton wrote:
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>> John G3NCN
>>
>> On 27 Oct 2013, at 15:40, John Ellerton wrote:
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>>> 73, John G3NCN
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>>> On 19 Oct 2013, at 15:23, <bim.huck@...> <bim.huck@...> wrote:
>>>
>>>>
>>>>
>>>> Hope you don’t mind a question about another great RACAL receiver.
>>>>
>>>> I have acquired a RACAL RA6778c and I am looking for a service manual for it.
>>>>
>>>> Failing that, someone told me their might be some similarity to the 1778. Does anyone have any further information on that.
>>>>
>>>> Thanks….Jim
>>>>
>>>>
>>>
>>>
>>
>
>
>

123. RE: RACAL RA6778c

Yahoo group: RA1778
Date: 2013-11-22 09:50:05 UTC
From: <davesc50@...>
Topic: 114 Message: 123

Hi,

I have 2x RA-6775's, and an MA-6003, in fact I think my 6775 / 6003 combo is Chucks old one :-)
To that end I have a set of manuals for them.
I have scanned the operators manual, but have not yet scanned the service manual.

I'll upload the operators manual to the files section if their is room, if not I will stick it on my web site and post a link.

I also have some PC control software, several different versions, for the 6775 that will possibly work with your 6887, if you'd like a copy please PM me.

---In ra1778@yahoogroups.com, <g3ncn@...> wrote:

Hi Chuck. A very interesting comment. I was also deeply involved in the development of RA1780 series. (the RF aspects - others were involved in the synthesis and digital aspects) During the dev of this series, we produced an RA1782, which was manually controlled as well as being capable of remote control. This never progressed beyond A model stage, since it was deemed too expensive for the market here, and the RA1784/MA1072 became the centre of the series. All of these receivers in the 1780 series used CD4000 series logic, and yes, fault finding was a nightmare! I believe you are close to the truth about the relationship between the USA 6778 and this series of receivers. I had no knowledge of the USA development, whose numbers must have been separately allocated, bearing no relationship to the UK numbering system at all.

John G3NCN

On 27 Oct 2013, at 22:28, Chuck Urmson wrote:

Hi All,

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As usual Fred Osterman's "Shortwave Receivers Past & Present" 3rd Edition ISBN 1-882123-07-7 should always be your first port of call. Looking at the various Racal receivers in that reference it seems clear that the RA1772/RA1778 (UK build), RA6772 (USA build) and RA8772CB (Canadian build) are the receivers that this group knows and loves and are very similar to each other.

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(CD4000 series) which is a nightmare to debug (from personal experience).

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Regards,
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On 27/10/2013 20:23, John Ellerton wrote:

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John G3NCN

On 27 Oct 2013, at 15:40, John Ellerton wrote:

RA6778 must have been the USA version of RA1778. I so not have info about the availability of the manual - I suspect the only route is the internet, since RACAL are now long gone. They were bought up by Thompson of France, becoming THALES, and the line of Racal receivers was discontinued. But it could be that the pcbs used in 6778 were the same as 1778, in which case the circuits would be the same. But USA components would have been used.
Sorry for the late reply, but it took me a while to think about this - now 40 years ago.!!!

73, John G3NCN

On 19 Oct 2013, at 15:23, <bim.huck@... mailto:bim.huck@...> <bim.huck@... mailto:bim.huck@...> wrote:

Hope you don’t mind a question about another great RACAL receiver.
I have acquired a RACAL RA6778c and I am looking for a service manual for it.
Failing that, someone told me their might be some similarity to the 1778. Does anyone have any further information on that.
Thanks….Jim

124. RE: RACAL RA6778c

Yahoo group: RA1778
Date: 2013-11-22 09:54:59 UTC
From: <davesc50@...>
Topic: 114 Message: 124

Just checked, and my memory is failing me. I have two service manuals, one for the 6775 and one for the 6003. Not a service and operators manual.
I have scanned the MA-6003 manual, but not as yet scanned the 6775 one.

I'll upload the 6003 one now.

---In ra1778@yahoogroups.com, <davesc50@...> wrote:

Hi,

I have 2x RA-6775's, and an MA-6003, in fact I think my 6775 / 6003 combo is Chucks old one :-)
To that end I have a set of manuals for them.
I have scanned the operators manual, but have not yet scanned the service manual.

I'll upload the operators manual to the files section if their is room, if not I will stick it on my web site and post a link.

I also have some PC control software, several different versions, for the 6775 that will possibly work with your 6887, if you'd like a copy please PM me.

---In ra1778@yahoogroups.com, <g3ncn@...> wrote:

Hi Chuck. A very interesting comment. I was also deeply involved in the development of RA1780 series. (the RF aspects - others were involved in the synthesis and digital aspects) During the dev of this series, we produced an RA1782, which was manually controlled as well as being capable of remote control. This never progressed beyond A model stage, since it was deemed too expensive for the market here, and the RA1784/MA1072 became the centre of the series. All of these receivers in the 1780 series used CD4000 series logic, and yes, fault finding was a nightmare! I believe you are close to the truth about the relationship between the USA 6778 and this series of receivers. I had no knowledge of the USA development, whose numbers must have been separately allocated, bearing no relationship to the UK numbering system at all.

John G3NCN

On 27 Oct 2013, at 22:28, Chuck Urmson wrote:

Hi All,

While I don't have any specific information on the RA6778C I do have some pointers that may be useful.

As usual Fred Osterman's "Shortwave Receivers Past & Present" 3rd Edition ISBN 1-882123-07-7 should always be your first port of call. Looking at the various Racal receivers in that reference it seems clear that the RA1772/RA1778 (UK build), RA6772 (USA build) and RA8772CB (Canadian build) are the receivers that this group knows and loves and are very similar to each other.

The RA6778A/B/C and the RA6772E(R-2130/GRR) are very similar to each other but completely different to the RA1772 series. I once owned an RA6775-10(R-2131(V)5/GRR) with MA6003 remote control which is also part of this range. Unfortunately I sold my RA6775-10/MA6003 complete with a full set of manuals so I can't help further. They all came out of the Racal Maryland(?) facility in the USA and were presumably built for those nice gentlemen that that read all our emails and listen to our phone calls etc. Although they are digitally controlled they are not microprocessor controlled. They are are built from random logic (CD4000 series) which is a nightmare to debug (from personal experience).

I have a funny feeling that the RA6778Q is based on the RA1784/MA1072 but have no evidence for that.

Regards,
Chuck EA8DBU/M1DPD

On 27/10/2013 20:23, John Ellerton wrote:

I have just looked at the front panel of RA6778. I AGREE IT CAN BEAR NO RELATIONSHIP WITH THE 1778. The layout of the buttons is more reminiscent of the RA1792 (6792 ?). But I don't know this one at all.

John G3NCN

On 27 Oct 2013, at 15:40, John Ellerton wrote:

RA6778 must have been the USA version of RA1778. I so not have info about the availability of the manual - I suspect the only route is the internet, since RACAL are now long gone. They were bought up by Thompson of France, becoming THALES, and the line of Racal receivers was discontinued. But it could be that the pcbs used in 6778 were the same as 1778, in which case the circuits would be the same. But USA components would have been used.
Sorry for the late reply, but it took me a while to think about this - now 40 years ago.!!!

73, John G3NCN

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Hope you don’t mind a question about another great RACAL receiver.
I have acquired a RACAL RA6778c and I am looking for a service manual for it.
Failing that, someone told me their might be some similarity to the 1778. Does anyone have any further information on that.
Thanks….Jim

125. Re: [RA1778] RE: RACAL RA6778c

Yahoo group: RA1778
Date: 2013-11-22 12:39:37 UTC
From: jim huck
Topic: 114 Message: 125

Thanks to all who have responded to my email on the RA 6778c receiver.
I am following all leads that are suggested so far and still coming up
short.
Keep your ideas coming.
This appears to be a very rare animal.
Thanks....Jim

On Fri, Nov 22, 2013 at 4:54 AM, <davesc50@...> wrote:

>
>
> Just checked, and my memory is failing me. I have two service manuals, one
> for the 6775 and one for the 6003. Not a service and operators manual.
>
> I have scanned the MA-6003 manual, but not as yet scanned the 6775 one.
>
>
> I'll upload the 6003 one now.
>
>
> ---In ra1778@yahoogroups.com, <davesc50@...> wrote:
>
> Hi,
>
>
> I have 2x RA-6775's, and an MA-6003, in fact I think my 6775 / 6003 combo
> is Chucks old one :-)
>
> To that end I have a set of manuals for them.
>
> I have scanned the operators manual, but have not yet scanned the service
> manual.
>
>
> I'll upload the operators manual to the files section if their is room, if
> not I will stick it on my web site and post a link.
>
>
> I also have some PC control software, several different versions, for the
> 6775 that will possibly work with your 6887, if you'd like a copy please PM
> me.
>
>
> ---In ra1778@yahoogroups.com, <g3ncn@...> wrote:
>

> Hi Chuck. A very interesting comment. I was also deeply involved in the
> development of RA1780 series. (the RF aspects - others were involved in the
> synthesis and digital aspects) During the dev of this series, we produced
> an RA1782, which was manually controlled as well as being capable of remote
> control. This never progressed beyond A model stage, since it was deemed
> too expensive for the market here, and the RA1784/MA1072 became the centre
> of the series. All of these receivers in the 1780 series used CD4000
> series logic, and yes, fault finding was a nightmare! I believe you are
> close to the truth about the relationship between the USA 6778 and this
> series of receivers. I had no knowledge of the USA development, whose
> numbers must have been separately allocated, bearing no relationship to the
> UK numbering system at all.
>
> John G3NCN
>
> On 27 Oct 2013, at 22:28, Chuck Urmson wrote:
>
>
>
> Hi All,
>
> While I don't have any specific information on the RA6778C I do have some
> pointers that may be useful.
>
> As usual Fred Osterman's "Shortwave Receivers Past & Present" 3rd Edition
> ISBN 1-882123-07-7 should always be your first port of call. Looking at
> the various Racal receivers in that reference it seems clear that the
> RA1772/RA1778 (UK build), RA6772 (USA build) and RA8772CB (Canadian build)
> are the receivers that this group knows and loves and are very similar to
> each other.
>
> The RA6778A/B/C and the RA6772E(R-2130/GRR) are very similar to each other
> but completely different to the RA1772 series. I once owned an RA6775-10
> (R-2131(V)5/GRR) with MA6003 remote control which is also part of this
> range. Unfortunately I sold my RA6775-10/MA6003 complete with a full set
> of manuals so I can't help further. They all came out of the Racal
> Maryland(?) facility in the USA and were presumably built for those nice
> gentlemen that that read all our emails and listen to our phone calls etc.
> Although they are digitally controlled they are not microprocessor
> controlled. They are are built from random logic (CD4000 series) which is a
> nightmare to debug (from personal experience).
>
> I have a funny feeling that the RA6778Q is based on the RA1784/MA1072 but
> have no evidence for that.
>
> Regards,
> Chuck EA8DBU/M1DPD
>
>
>

> On 27/10/2013 20:23, John Ellerton wrote:
>
> I have just looked at the front panel of RA6778. I AGREE IT CAN BEAR NO
> RELATIONSHIP WITH THE 1778. The layout of the buttons is more reminiscent
> of the RA1792 (6792 ?).
> But I don't know this one at all.
>
> John G3NCN
>
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>
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>
>
> RA6778 must have been the USA version of RA1778. I so not have info about
> the availability of the manual - I suspect the only route is the internet,
> since RACAL are now long gone. They were bought up by Thompson of France,
> becoming THALES, and the line of Racal receivers was discontinued. But it
> could be that the pcbs used in 6778 were the same as 1778, in which case
> the circuits would be the same. But USA components would have been used.
> Sorry for the late reply, but it took me a while to think about this - now
> 40 years ago.!!!
>
> 73, John G3NCN
>
> On 19 Oct 2013, at 15:23, <bim.huck@...> <bim.huck@...> wrote:
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>
>
>
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> I have acquired a RACAL RA6778c and I am looking for a service manual for
> it.
>
> Failing that, someone told me their might be some similarity to the 1778.
> Does anyone have any further information on that.
>
> Thanks….Jim
>
>
>
>
>
>
>
>
>
>

126. RA1772M

Yahoo group: RA1778
Date: 2013-12-01 20:24:59 UTC
From: <voor26@...>
Topic: 126 Message: 126

I have a R1772M here in reasonable condition. It has a keyswitch in the bottom righthand corner of the front.Memory unit is fitted as well. Memory storage is via the keyswitch. Recall and memory selection via the rotary switch next to the MHz digit.
Any comment....is this a R1772 or later ??

Thanks,
Francois Steyn
Villiersdorp
South Africa
ZR1AIK

127. Re: [RA1778] RA1772M

Yahoo group: RA1778
Date: 2013-12-02 16:58:12 UTC
From: John Ellerton
Topic: 126 Message: 127

Francois, this sounds like a RA1778 to me. It was this version which carried the keyswitch.
I have no recollection of a 1772 being fitted with a keyswitch to control a memory, and I was intimately involved in the series design.
Unless Racal South Africa did something off their own bat, ???
John G3NCN

On 1 Dec 2013, at 20:24, <voor26@...> <voor26@...> wrote:

> I have a R1772M here in reasonable condition. It has a keyswitch in
> the bottom righthand corner of the front.Memory unit is fitted as
> well. Memory storage is via the keyswitch. Recall and memory
> selection via the rotary switch next to the MHz digit.
> Any comment....is this a R1772 or later ??
>
> Thanks,
> Francois Steyn
> Villiersdorp
> South Africa
> ZR1AIK
>
>

128. RA1772 Review

Yahoo group: RA1778
Date: 2014-01-06 12:36:30 UTC
From: Tom
Topic: 128 Message: 128

Hello
Has anyone got a copy of John Wilson's SWM Jan 2002 review of the RA1772
that they could send to me as an email attachment?

Thank you

Tom Quinn
New member of the group

129. RE: RA1772 Review

Yahoo group: RA1778
Date: 2014-01-06 21:05:56 UTC
From: <john@...>
Topic: 128 Message: 129

I've also been looking for John Wilson's review for a while...

If anyone has a copy please cc to me as well - thanks...

John

130. Re: [RA1778] RA1772 Review

Yahoo group: RA1778
Date: 2014-01-07 06:53:51 UTC
From: John Ellerton
Topic: 128 Message: 130
Attachments: 1 described; binary payloads are missing from this source WARC

If anyone comes across this review, please let me have copy as well. I was deeply involved in the design of the RA1770 / RA1780 series! Many years ago!
John G3NCN

On 6 Jan 2014, at 21:05, <john@...> <john@...> wrote:

>
> I've also been looking for John Wilson's review for a while...
>
>
>
> If anyone has a copy please cc to me as well - thanks...
>
>
>
> John
>
>
>

131. Re: [RA1778] RA1772 Review

Yahoo group: RA1778
Date: 2014-01-07 07:25:29 UTC
From: John Raymond Dore
Topic: 128 Message: 131

Can I Add my name to the list of recipients please?
John
GW3XPK

On 6 January 2014 12:36, Tom <tom@...> wrote:

>
>
> Hello
> Has anyone got a copy of John Wilson's SWM Jan 2002 review of the RA1772
> that they could send to me as an email attachment?
>
> Thank you
>
> Tom Quinn
> New member of the group
>
>

132. Re: [RA1778] RA1772 Review

Yahoo group: RA1778
Date: 2014-01-07 08:36:20 UTC
From: casy_ch@tbwil.ch
Topic: 128 Message: 132

Private mailing as answer to a group question seems to me not the aim of the group. For such request an upload to the file section would be more fair.

Jean-Claude, HB3YDH (Racal UK fan)
Am 07.01.2014 08:25, schrieb John Raymond Dore:
> Can I Add my name to the list of recipients please?
> John
> GW3XPK
>
>
> On 6 January 2014 12:36, Tom <tom@...
> <mailto:tom@...>> wrote:
>
> Hello
> Has anyone got a copy of John Wilson's SWM Jan 2002 review of the
> RA1772
> that they could send to me as an email attachment?
>
> Thank you
>
> Tom Quinn
> New member of the group
>
>
>

133. RA1772 review

Yahoo group: RA1778
Date: 2014-01-07 08:43:21 UTC
From: John Nelson
Topic: 133 Message: 133

Did the esteemed Mr Wilson ever actually review the RA1772? I know he looked at the RA1792 but don't remember seeing a review of the earlier radio.

73 John
GW4FRX

134. Re: RA1772 review

Yahoo group: RA1778
Date: 2014-01-07 08:53:23 UTC
From: John Raymond Dore
Topic: 133 Message: 134

http://www.eham.net/reviews/detail/2460
indicates that Wilson did a review

Potential purchasers should try to read John Wilson's exhaustive technical review in the UK's "Short Wave Magazine" for January 2002, page 43. For example in an SSB bandwidth of 2.7kHz he measured the IP3 at 20kHz signal spacings at +33dBm and a 3rd Order dynamic range of 110dB. The IP2 wideband was +50dBm but increased with the preselector in to +82dBm. These are impressive numbers which explain why so many folk still regard this old set so highly.

Feel free to email any comments to me at michaelob666@....

Maybe someone knows the writer of the eham review and could obtain a copy from him

John
GW3XPK

135. Re: [RA1778] RA1772 Review

Yahoo group: RA1778
Date: 2014-01-07 09:46:39 UTC
From: Helge Kyndbo
Topic: 128 Message: 135

Can I Add my name to the list of recipients please?

helge

136. Re: [RA1778] RA1772 Review

Yahoo group: RA1778
Date: 2014-01-07 09:48:06 UTC
From: Chuck Urmson
Topic: 128 Message: 136

Hi All,

I have uploaded a copy of John Wilson's review to the Files section of the group.

Regards,
Chuck

On 07/01/2014 08:36, casy_ch@... wrote:

Private mailing as answer to a group question seems to me not the aim of the group. For such request an upload to the file section would be more fair.

Jean-Claude, HB3YDH (Racal UK fan)

Am 07.01.2014 08:25, schrieb John Raymond Dore:

Can I Add my name to the list of recipients please?
John

GW3XPK

On 6 January 2014 12:36, Tom <tom@...> wrote:

Hello
Has anyone got a copy of John Wilson's SWM Jan 2002 review of the RA1772
that they could send to me as an email attachment?

Thank you

Tom Quinn
New member of the group

137. Re: [RA1778] RA1772 Review

Yahoo group: RA1778
Date: 2014-01-07 13:49:23 UTC
From: casy_ch@tbwil.ch
Topic: 128 Message: 137

A big thanks Chuck. That was nice of you.

Jean-Claude
(RA-1792, RA-3712, RA-6793)

Am 07.01.2014 10:48, schrieb Chuck Urmson:
>
> Hi All,
>
> I have uploaded a copy of John Wilson's review to the Files section of
> the group.
> Regards,
> Chuck
>
>
> On 07/01/2014 08:36, casy_ch@... wrote:
>>
>> Private mailing as answer to a group question seems to me not the aim
>> of the group. For such request an upload to the file section would be
>> more fair.
>>
>> Jean-Claude, HB3YDH (Racal UK fan)
>>
>> Am 07.01.2014 08:25, schrieb John Raymond Dore:
>>> Can I Add my name to the list of recipients please?
>>> John
>>> GW3XPK
>>>
>>>
>>> On 6 January 2014 12:36, Tom <tom@...
>>> <mailto:tom@...>> wrote:
>>>
>>> Hello
>>> Has anyone got a copy of John Wilson's SWM Jan 2002 review of
>>> the RA1772
>>> that they could send to me as an email attachment?
>>>
>>> Thank you
>>>
>>> Tom Quinn
>>> New member of the group
>>>
>>>
>>

138. Re: [RA1778] RA1772 Review

Yahoo group: RA1778
Date: 2014-01-07 16:52:11 UTC
From: <john@...>
Topic: 128 Message: 138

Chuck - Can I echo Jean-Claude's thanks, greatly appreciate the upload.

John

139. Re: [RA1778] RA1772 Review

Yahoo group: RA1778
Date: 2014-01-07 19:54:49 UTC
From: <enriqueeeeee2001@...>
Topic: 128 Message: 139

For your interest I have uploaded a copy of an old 1772 review,October 1974, in the files section of the group.

Thanks to Michael O'Beirne G8MOB that sent me it some time ago.

I have got a question, I have a Racal 1772 receiver but I would like to upgrade with a Software Defined Radio or a better analog receiver. Having in account that my main interest is to catch weak signals on the tropical band and above and is quite sure that most of you own more than one receiver could you recommend me another that works better in that segment?

I have been thinking about a Perseus SDR or an AOR 7030+, anyone have both and could make a comparison againts the 1772 in terms of audio recovery, readable voice.....?

Thanks in advance.
Regards

140. Re: [RA1778] RA1772 Review

Yahoo group: RA1778
Date: 2014-01-08 16:08:13 UTC
From: <terrencelharvey@...>
Topic: 140 Message: 140
Attachments: 1 described; binary payloads are missing from this source WARC

Hello Group. Located another cy of the 1772 review that is a little more crisp.

Regards,

Terry Harvey

Ra6772

Sent from Windows Mail

141. Re: [RA1778] RA1772 Review [1 Attachment]

Yahoo group: RA1778
Date: 2014-01-08 17:15:36 UTC
From: Chuck Urmson
Topic: 140 Message: 141

Hi All,

I have uploaded an even better copy (sorry) that I found this at a great site:
http://www.keith-snook.info/

This site has a considerable number of Wireless World articles. He is mainly interested in Hi-Fi type stuff but then I suspect that some of you, like me, may also have an interest in that sort of thing as well.

Regards,
Chuck

142. Noobie

Yahoo group: RA1778
Date: 2014-02-13 08:18:36 UTC
From: John Simon
Topic: 142 Message: 142

G'day, I'm a new member who may be in the wrong area, please advise if so.

I've just taken delivery of a RA1779 and would like some members comments on the receiver.

73, John de VK2XGJ
I know the voices aren't real
but they have some good ideas!

143. Re: [RA1778] Noobie

Yahoo group: RA1778
Date: 2014-02-13 16:56:16 UTC
From: John Raymond Dore
Topic: 142 Message: 143

Welcome to our wonderful world of Racal receivers.
I cannot envisage a better place for you to start.
You will see details in the 'files' area of the RA1778
I have also obtained some details of the whole series so hopefully when I
get home and electricity is restored I can see what a sales brochure says
comparing the RA1778 and RA1779 ... if anything.
73 de John GW3XPK

On 13 February 2014 08:18, John Simon <jrsimon@...> wrote:

>
>
> G'day, I'm a new member who may be in the wrong area, please advise if so.
>
> I've just taken delivery of a RA1779 and would like some members comments
> on
> the receiver.
>
> 73, John de VK2XGJ
> I know the voices aren't real
> but they have some good ideas!
>
>
>

144. Re: [RA1778] Noobie

Yahoo group: RA1778
Date: 2014-02-14 05:42:49 UTC
From: John Simon
Topic: 142 Message: 144

Many tnx for the reply John. Watching the TV you are up to your necks in water and we’re up to our necks in dust!

I’m trying to find out the main differences in the RA 1778 and the RA 1779. So far it looks like the writing on the cabinet is a different colour.

I also acquired an RA 1217 in the same deal and on the same antenna, the 1217 seems to have the legs. Or maybe it is me!

73, John de VK2XGJ
I know the voices aren't real
but they have some good ideas!

From: John Raymond Dore
Sent: Friday, February 14, 2014 3:56 AM
To: RA1778@yahoogroups.com
Subject: Re: [RA1778] Noobie

Welcome to our wonderful world of Racal receivers.
I cannot envisage a better place for you to start.
You will see details in the 'files' area of the RA1778
I have also obtained some details of the whole series so hopefully when I get home and electricity is restored I can see what a sales brochure says comparing the RA1778 and RA1779 ... if anything.
73 de John GW3XPK

On 13 February 2014 08:18, John Simon <jrsimon@ozemail.com.au> wrote:

G'day, I'm a new member who may be in the wrong area, please advise if so.

I've just taken delivery of a RA1779 and would like some members comments on the receiver.

73, John de VK2XGJ
I know the voices aren't real
but they have some good ideas!

145. Re: [RA1778] Noobie

Yahoo group: RA1778
Date: 2014-02-15 17:21:24 UTC
From: John Ellerton
Topic: 142 Message: 145

Oh yes, John. We are up to our necks in water alright! Floods all over and my antenna mast has just been destroyed after a truly violent storm.
The basic difference between the 1778 aqnd the 1779 is that the memory of the 1779 is a greater number of channels, and there is a remote control D connector on the back which can be used to remotely select channels. The science of memories was growing rapidly at the time, and the 1779 took advantage of that, using newer and better memory ICs.
It is now 40 + years since this development, and my life has moved on a long way. But if my memory serves me right, the 1779 had a 100 channel capability, whereas the 1778 has a 12 channel capability, and no remote selection of channel. If this is true, then the channel selection switch to the left of the frequency display may have its own pair of LED channel indicators. Otherwise the number of channels may be limited by the mechanical switch mechanism and the dial which accompanies it. I am sorry my memory is so weak nowadays!
The 1217 is of a previous generation, and may seem more sensitive, but its stability is much inferior, and its strong signal handling isn't a patch on the 1779. I know this because I was involved in the development of all the RA1770 series, and also the RA1780 series. We put a huge amount of development into the front end performance, to improve it over the 121x series.
I hope this helps, John. If I can find more info, I will send it to you.
You are indeed a lucky chap to have acquired that 1779 receiver.

73, John G3NCN

On 14 Feb 2014, at 05:42, John Simon wrote:

>
> Many tnx for the reply John. Watching the TV you are up to your
> necks in water and we’re up to our necks in dust!
>
> I’m trying to find out the main differences in the RA 1778 and the
> RA 1779. So far it looks like the writing on the cabinet is a
> different colour.
>
> I also acquired an RA 1217 in the same deal and on the same
> antenna, the 1217 seems to have the legs. Or maybe it is me!
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> 73, John de VK2XGJ
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>
>
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> Sent: Friday, February 14, 2014 3:56 AM
> To: RA1778@yahoogroups.com
> Subject: Re: [RA1778] Noobie
>
>
>
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> I cannot envisage a better place for you to start.
> You will see details in the 'files' area of the RA1778
> I have also obtained some details of the whole series so hopefully
> when I get home and electricity is restored I can see what a sales
> brochure says comparing the RA1778 and RA1779 ... if anything.
> 73 de John GW3XPK
>
> On 13 February 2014 08:18, John Simon <jrsimon@...> wrote:
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> G'day, I'm a new member who may be in the wrong area, please advise
> if so.
>
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> comments on
> the receiver.
>
> 73, John de VK2XGJ
> I know the voices aren't real
> but they have some good ideas!
>
>
>
>
>

146. Re: [RA1778] Noobie

Yahoo group: RA1778
Date: 2014-02-16 12:34:24 UTC
From: John Raymond Dore
Topic: 142 Message: 146

There is a copy of the service manual for the RA1779 currently offered on
ebay.co.uk
John GW3XPK

On 15 February 2014 17:21, John Ellerton <g3ncn@...> wrote:

>
>
> Oh yes, John. We are up to our necks in water alright! Floods all over
> and my antenna mast has just been destroyed
> after a truly violent storm.
> The basic difference between the 1778 aqnd the 1779 is that the memory of
> the 1779 is a greater number of channels,
> and there is a remote control D connector on the back which can be used to
> remotely select channels. The science of memories was growing rapidly at
> the time, and the 1779 took advantage of that, using newer and better
> memory ICs.
> It is now 40 + years since this development, and my life has moved on a
> long way. But if my memory serves me right, the 1779 had a 100 channel
> capability, whereas the 1778 has a 12 channel capability, and no remote
> selection of channel. If this is true, then
> the channel selection switch to the left of the frequency display may have
> its own pair of LED channel indicators. Otherwise the number of channels
> may be limited by the mechanical switch mechanism and the dial which
> accompanies it. I am sorry my memory is so weak nowadays!
> The 1217 is of a previous generation, and may seem more sensitive, but its
> stability is much inferior, and its strong signal handling isn't a patch on
> the 1779. I know this because I was involved in the development of all the
> RA1770 series, and also the RA1780 series. We put a huge amount of
> development into the front end performance, to improve it over the 121x
> series.
> I hope this helps, John. If I can find more info, I will send it to you.
> You are indeed a lucky chap to have acquired that 1779 receiver.
>
> 73, John G3NCN
>
> On 14 Feb 2014, at 05:42, John Simon wrote:
>
>
>
>
> *Many tnx for the reply John. Watching the TV you are up to your necks
> in water and we're up to our necks in dust! *
>
> *I'm trying to find out the main differences in the RA 1778 and the RA
> 1779. So far it looks like the writing on the cabinet is a different

> colour.*
>
> *I also acquired an RA 1217 in the same deal and on the same antenna, the
> 1217 seems to have the legs. Or maybe it is me!*
>
>
>
>
>
>
> *73, John de VK2XGJI know the voices aren't realbut they have some good
> ideas!*
>
> *From:* John Raymond Dore <johnrdore@...>
> *Sent:* Friday, February 14, 2014 3:56 AM
> *To:* RA1778@yahoogroups.com
> *Subject:* Re: [RA1778] Noobie
>
>
>
> Welcome to our wonderful world of Racal receivers.
> I cannot envisage a better place for you to start.
> You will see details in the 'files' area of the RA1778
> I have also obtained some details of the whole series so hopefully when I
> get home and electricity is restored I can see what a sales brochure says
> comparing the RA1778 and RA1779 ... if anything.
> 73 de John GW3XPK
>
> On 13 February 2014 08:18, John Simon <jrsimon@...> wrote:
>
>>
>>
>> G'day, I'm a new member who may be in the wrong area, please advise if so.
>>
>> I've just taken delivery of a RA1779 and would like some members comments
>> on
>> the receiver.
>>
>> 73, John de VK2XGJ
>> I know the voices aren't real
>> but they have some good ideas!
>>
>>
>
>
>
>

147. RA1778 Original manual ... purchase or borrow

Yahoo group: RA1778
Date: 2014-03-04 11:08:41 UTC
From: <johnrdore@...>
Topic: 147 Message: 147

I wish to purchase an original manual for the RA1778 Failing that I could borrow one (with a large cash deposit) so that I could do a better scan than the scan on our RA1778 user group files
I now have an A3 scanner with very high resolution
A3 scans of the circuits and pcb layouts would be more easily followed.
Can anyone help?
I am now the owner of two RA1778
73 de GW3XPK John

148. RA1778 / 1772 mains transformer wanted

Yahoo group: RA1778
Date: 2014-04-27 08:50:08 UTC
From: <d.bobbett@...>
Topic: 148 Message: 148

Hi all,

Having recently found a very good home for what was my main 1778, my interest in these radios has been rekindled and I have been taking a look at my remaining 1778 and 1772 'work in progress' radios.

They share a common problem in that the laminations of the transformers have worked loose internally and they both hum loudly and enthusiastically.

So I was wondering if anybody has got a good (ie non-humming!) mains transformer which they are able to part with.

Thanks for reading this - fingerds crossed!

David Bobbett, G4IRQ

149. 12 volts on BNC antenna connector...

Yahoo group: RA1778
Date: 2014-04-29 11:47:16 UTC
From: <john@...>
Topic: 149 Message: 149

Hi,

Just making up a simple box, two antennas in (selectable) two out via power splitter. I've included a fairly low gain switchable pre-amp in there as well. While playing around and doing some tests with my RA1772, as I've no other receiver to hand just at the moment I notice I've got 12 volts on the Racal's BNC antenna connector. This appears to happen only on the lowest frequency range. Now looking at the circuit diagram I presume this must be coming via R9 through relay RLQ1 (pins 2 & 5) which are normally closed and onto to the antenna connector. On all the other ranges its about 300 mVolts and I'm presuming pints 2 & 5 are now open.

Anyone out there enlighten me as to why the designer decided that it was necessary to have 12 volts at the antenna connector?

As this 12 volts is going to be taken down to earth via a ferrite transformer in the pre-amp I've inserted a 1 microfarad dc blocker 'tween the receiver and the magic box. Anyone any ideas on what might be a better value?

Thanks.

150. Re: 12 volts on BNC antenna connector...

Yahoo group: RA1778
Date: 2014-04-29 18:47:06 UTC
From: <rayfarrar@...>
Topic: 149 Message: 150

Hi,

Out of interest I checked the voltage across the antenna BNC of my 1772. I get 235mV on all ranges. I then moved the RF Tune from WB to tune, and the voltage went to zero on all bands except the lowest band which remained at 235mV.

Does this help or confuse matters further?

Regards

Ray

151. Re: 12 volts on BNC antenna connector...

Yahoo group: RA1778
Date: 2014-04-30 13:37:42 UTC
From: <john@...>
Topic: 149 Message: 151

Hi,

Thanks Ray.

>>> Does this help or confuse matters further? <<<

Helps, I think, well appears to confirm that one of my receivers has a funny on it...

Now I hadn't thought of taking any measurements with the pre selctor in WB and in tuned so here they are again:

Receiver 1. Pre selector in WB.
0 - 1mhz…....11.92 volts
1 - 29 mhz.....0.276 volts

Pre selector in tuned
0 - 1 mhz…..11.92 volts
1 - 29 mhz……0 volts

Also I never thought of checking my other 1772, so for comparison here they are:-

Receiver 2. Pre selector in WB.
0 – 1 mhz……0.226 volts
1 – 29 mhz…..0.226 volts

Pre selector in tuned
0 – 1 mhz…..0.226 volts
1 – 29 mhz…0 volts

My second receiver appears to have similar voltages to yours. I have a Windom antenna with a 4:1 balun so that means I'm taking the 12 volts down to earth, through the braid. Now I'm presuming that one of the relay contacts in the pre selector is playing up so I'd like to sort it - and any ideas would be very welcome!

Thanks for your help,

John

152. Re: 12 volts on BNC antenna connector...

Yahoo group: RA1778
Date: 2014-04-30 13:50:18 UTC
From: <rayfarrar@...>
Topic: 149 Message: 152

Unfortuately I'd be in the same position as you on this one. Sorry can't help further.

Regards

Ray

153. Re: 12 volts on BNC antenna connector...

Yahoo group: RA1778
Date: 2014-04-30 19:47:11 UTC
From: <john@...>
Topic: 149 Message: 153

Hi Ray,

That's OK, appreciate you posting your voltages, it confirms my receiver has a problem! I'll just need to look at the Manual and see if I can make sense of it all, lots of relays in there so maybe some duff contacts...

Take care,

John

154. Re: [RA1778] Re: 12 volts on BNC antenna connector...

Yahoo group: RA1778
Date: 2014-05-01 21:37:57 UTC
From: John Ellerton
Topic: 149 Message: 154

Take a look at the coupling capacitors in the RF pcb. I guess your problem is most likely to come from there.
John G3NCN

On 30 Apr 2014, at 20:47, <john@...> <john@...
> wrote:

> Hi Ray,
>
> That's OK, appreciate you posting your voltages, it confirms my
> receiver has a problem! I'll just need to look at the Manual and
> see if I can make sense of it all, lots of relays in there so maybe
> some duff contacts...
>
> Take care,
>
> John
>
>

155. Re: [RA1778] Re: 12 volts on BNC antenna connector...

Yahoo group: RA1778
Date: 2014-05-04 20:55:13 UTC
From: <john@...>
Topic: 149 Message: 155

Hi John

Thanks for your input. I am looking at the pre-selector at the moment and I’m confused - mind you the wife says I’ve been confused for years!

R9 & R11 (both 100k) are connected between the 12 volt rail and the signal path, for contact wetting according to the Manual. I’d assumed that it was this I was seeing at the antenna connector but obviously not as it only happens on the lowest band.

Think I need to go and do some head scratching...

Thanks again for your advice.

John

156. Re: [RA1778] RA1772M

Yahoo group: RA1778
Date: 2014-05-08 19:58:26 UTC
From: <voor26@...>
Topic: 126 Message: 156

Hallo John !

Thanks for the response...I took out the set on Sunday to see if the 5.5 volt back-up battery is OK but all stations in the memory were erased. I charged the battery overnight by leaving the set on...and it just stores nicely as before ! 12 memories on the knob next to the frequency readout. To store you simply flick the keyswitch to the right and it returns by spring action...to recall simply rotate memo knob next to display and stations are read from memory. I will take a picture of the set, if it is OK ?? Thanks 73 de Francois ZR1AIK

157. Re: [RA1778] Re: 12 volts on BNC antenna connector...

Yahoo group: RA1778
Date: 2014-05-09 18:05:28 UTC
From: john@...
Topic: 149 Message: 157

Further to my 12 volts on the antenna connector.

I've had another look and I suspect as I mentioned in a previous mail that it is appearing via the two resistors, R9 & R11 (both 100k). There's normally a path to ground for this wetting current via R10 (1k). However when the receiver is switched to the lowest band R10 is out of circuit and in this instance R12 (1k) in the 0-1 low pass filter would provide this path. However R12 is missing on my pre selector board. It is not marked on the board and there is no room to mount it, so ~12 volts appears on the RF path.

The circuit diagram/component layout I have here refers to a DA 47348 whilst my pre selector is marked DA 47349. Just to cause more confusion my board is actually marked 47348/A on one side and 47349 on the other side. I appreciate these are drawing numbers.

Am I completely off beam here? Anyone any comments?

158. Re: [RA1778] Re: 12 volts on BNC antenna connector...

Yahoo group: RA1778
Date: 2014-05-10 10:57:25 UTC
From: John Ellerton
Topic: 149 Message: 158

John, I have looked at the drawings of the pcb for both the tuned RF pcb at the mounting position for R12.
On both boards, R12 lies between L10 and L9, just to the right of TP1, and just below R10. On both handbook drawings the location is at the lower lefthand side of the drawing. By the way if you want to remove this voltage altogether from the RF connector, a coupling capacitor of 0.1uF would provide isolation. At this stage of my life I cannot remember this voltage being problematic. The receiver was used in many systems.

I hope that helps, John

John G3NCN
On 9 May 2014, at 19:05, john@... [RA1778] wrote:

> Further to my 12 volts on the antenna connector.
>
> I've had another look and I suspect as I mentioned in a previous
> mail that it is appearing via the two resistors, R9 & R11 (both
> 100k). There's normally a path to ground for this wetting current
> via R10 (1k). However when the receiver is switched to the lowest
> band R10 is out of circuit and in this instance R12 (1k) in the 0-1
> low pass filter would provide this path. However R12 is missing on
> my pre selector board. It is not marked on the board and there is
> no room to mount it, so ~12 volts appears on the RF path.
>
> The circuit diagram/component layout I have here refers to a DA
> 47348 whilst my pre selector is marked DA 47349. Just to cause more
> confusion my board is actually marked 47348/A on one side and 47349
> on the other side. I appreciate these are drawing numbers.
>
> Am I completely off beam here? Anyone any comments?
>
>

159. Re: [RA1778] Re: 12 volts on BNC antenna connector...

Yahoo group: RA1778
Date: 2014-05-10 17:05:40 UTC
From: john@...
Topic: 149 Message: 159

Thanks John.

Problem is that R12 does not exist on the board and there are no mounting holes for it. R10 is there though... The receiver was presumably made this way and as you say it shouldn't be problemmatical, I'll just add a 0.1uF in there to isolate it from the outside world.

I was initially a bit concerned that if the antenna line was shorted to earth it might cause some damage but with R9 & R11 (both 100k) in series with the 12 volts any current drawn would obviously be miniscule.

Many thanks again John, appreciate you taking time to help..

John

162. RA1772 For Sale

Yahoo group: RA1778
Date: 2014-06-14 17:51:10 UTC
From: d.bobbett@...
Topic: 162 Message: 162

Due to the arrival of rather too many domestic invoices at once, I’ve reluctantly decided to sell my Racal RA1772. This is a late example (serial number 205x) with black handles and is cosmetically very good. It has the X-filter set with AFC and preselector. I’m offering it to the cognoscenti at £400 before it goes on eBay. An original Creeth case may also be available by separate negotiation.

73 John
GW4FRX

Please contact gw4frx@hotmail.com

(Posted by Group Owner on behalf of GW4FRX)

163. Damaged mc/s disc RA1772

Yahoo group: RA1778
Date: 2014-06-22 19:56:11 UTC
From: john@...
Topic: 163 Message: 163

Hello,

I notice that the mc/s disc behind the front panel on my RA1772 has become quite badly scored. I presume this is because it has been rubbing against the back of the front panel – or the front of the panel 'behind' the front panel – if that makes sense… The scratches seem worse from about 14 mc/s up and I presume this is because the disc may be very slightly buckled i.e. not quite flat and part of it has been catching.

I'll have to split these panels to get at this disc and I won't be doing this for a while as I've other things to do – or so the wife tells me… Can anyone here give me some ideas of what I can do to restore this disc or will I have to replace it, that's assuming I can find one. I'm presuming it's painted and the numbers then engraved onto the disc. Can it be re-sprayed and the 'engravings' cleaned of paint before it dries?

Incidentally as a temporary measure I have put some packing between the two panels and centred the disc so hopefully there won't be any more damage…

Thanks.

John

164. RA1779 question

Yahoo group: RA1778
Date: 2014-09-26 05:06:05 UTC
From: John Simon
Topic: 164 Message: 164

Sorry if I am in the wrong area but I have to ask.

I don't think there is much difference between the 1778 and 1779.

My RA1779 receives well in LSB but the lack of audio when I switch to USB
makes the receiver just about useless. I have the manual and I feel it
have something to do with the USB crystal or the switching diode.
Comments please.

73, John de VK2XGJ
I use the original form of social networking.
Amateur Radio.

165. Re: [RA1778] RA1779 question

Yahoo group: RA1778
Date: 2014-09-26 15:33:32 UTC
From: Enrique Fernandez García
Topic: 164 Message: 165

Hello John,

Have a look at the if filter board (ps 367), link pins 19-20 for ssb only, link pins 19-21 for lsb.
Can you listen with the headphones, when is in USB mode?
Try to move the line level usb/am control adjustment (front panel)

As you say maybe the swith need to be cleaned or a bad/cold soldering join .

I hope that this could help.
Regards.

El Viernes 26 de septiembre de 2014 7:06, "'John Simon' jrsimon@... [RA1778]" <RA1778@yahoogroups.com> escribió:

Sorry if I am in the wrong area but I have to ask.

I don't think there is much difference between the 1778 and 1779.

My RA1779 receives well in LSB but the lack of audio when I switch to USB
makes the receiver just about useless. I have the manual and I feel it
have something to do with the USB crystal or the switching diode.
Comments please.

73, John de VK2XGJ
I use the original form of social networking.
Amateur Radio.

Posted by: "John Simon" <jrsimon@...>

Yahoo Groups Links

https://info.yahoo.com/legal/us/yahoo/utos/terms/

166. Re: [RA1778] RA1779 question

Yahoo group: RA1778
Date: 2014-09-27 01:28:21 UTC
From: John Simon
Topic: 164 Message: 166

Many thanks for the reply. I'll check out the IF filter board as suggested.
Very little or no audio in headphones or speaker when in USB mode. All AOK in all other modes.

Have checked the Line and Main levels to no avail.

It is such i nice old radio, a pity I wasn't more skilled in fixing her.

Tnx again.

73, John de VK2XGJ
I use the original form of social networking.
Amateur Radio.

From: mailto:RA1778@yahoogroups.com
Sent: Saturday, September 27, 2014 1:33 AM
To: RA1778@yahoogroups.com
Subject: Re: [RA1778] RA1779 question

Hello John,

Have a look at the if filter board (ps 367), link pins 19-20 for ssb only, link pins 19-21 for lsb.
Can you listen with the headphones, when is in USB mode?
Try to move the line level usb/am control adjustment (front panel)

As you say maybe the swith need to be cleaned or a bad/cold soldering join .

I hope that this could help.
Regards.

El Viernes 26 de septiembre de 2014 7:06, "'John Simon' jrsimon@... [RA1778]" <RA1778@yahoogroups.com> escribió:

Sorry if I am in the wrong area but I have to ask.

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My RA1779 receives well in LSB but the lack of audio when I switch to USB
makes the receiver just about useless. I have the manual and I feel it
have something to do with the USB crystal or the switching diode.
Comments please.

73, John de VK2XGJ
I use the original form of social networking.
Amateur Radio.

Posted by: "John Simon" <jrsimon@...>

Yahoo Groups Links

167. RA1772 option numbers

Yahoo group: RA1778
Date: 2014-11-01 06:35:52 UTC
From: bobwarriner2000@...
Topic: 167 Message: 167

Good day all.
Fairly new to this group after acquiring a RA1772 in excellent working condition (lucky).
This receiver comes with an RF tuner & AFC facility but the filter option is X, I can't find any reference to this in any documents, does anyone here recognise this?
The full option list is RA1772/X/S3/R/B3/0/C
Looking forward to chewing the fat about this superb RX with other members.

Rgds Bob (UK)

168. Re: [RA1778] RA1772 option numbers

Yahoo group: RA1778
Date: 2014-11-01 19:28:31 UTC
From: John Raymond Dore
Topic: 167 Message: 168

Bob,bobwarriner2000@...
It is easy to look at the filters by hinging up the filter board.
The filter specifications are written on each of the filters.
There will be USB, LSB and carrier filters.
The other 3 filters will apply to CW and on some sets to USB too.
Enjoy your RA1772
73 John GW3XPK

On 1 November 2014 06:35, bobwarriner2000@... [RA1778] <
RA1778@yahoogroups.com> wrote:

>
>
> Good day all.
>
> Fairly new to this group after acquiring a RA1772 in excellent working
> condition (lucky).
>
> This receiver comes with an RF tuner & AFC facility but the filter option
> is X, I can't find any reference to this in any documents, does anyone here
> recognise this?
>
> The full option list is RA1772/X/S3/R/B3/0/C
>
> Looking forward to chewing the fat about this superb RX with other members.
>
>
> Rgds Bob (UK)
>
>
>

169. Re: [RA1778] RA1772 option numbers

Yahoo group: RA1778
Date: 2014-11-01 21:44:21 UTC
From: bobwarriner2000@...
Topic: 167 Message: 169

Hi John, thanks for your reply. I am aware of that, what I was wondering about was why the suffix "X"? and why it is not listed in the manual or service documents, as far as I can see anyway....special in some way perhaps?

Rgds Bob(UK)

170. Re: [RA1778] RA1772 option numbers

Yahoo group: RA1778
Date: 2014-11-02 10:27:20 UTC
From: John Ellerton
Topic: 167 Message: 170

Bob, I cannot remember at this time later what the X meant, but I remember a version of 1772 with special filters for receiving weather balloon messages. The SSB filters were designed to receive sidebands from 3 to 6 kHz rather than 300 Hz to 3 kHz.
If your receiver gets SSB signals OK, then the X is a configuration I don't remember. It is approaching 40 years since I was involved in the design of that receiver family. The X could denote some sort of Government or military connection, as a last thought.

John Ellerton, G3NCN

On 1 Nov 2014, at 21:44, bobwarriner2000@... [RA1778] wrote:

> Hi John, thanks for your reply.
>
> I am aware of that, what I was wondering about was why the suffix
> "X"? and why it is not listed in the manual or service documents, as
> far as I can see anyway....special in some way perhaps?
>
> Rgds Bob(UK)
>
>

171. Re: [RA1778] RA1772 option numbers

Yahoo group: RA1778
Date: 2014-11-02 22:01:18 UTC
From: bobwarrin2009@...
Topic: 167 Message: 171

Hi John G3NCN. Thanks for your reply, after 40 years, I wouldn't expect you to remember all the design details, so I appreciate your suggestions.
I remember a story about one of the design team that lost most of his hair while working out the cable form, I'm not surprised really.....it wasn't you was it? :-)

Rgds Bob (UK)

172. Re: [RA1778] RA1779 question

Yahoo group: RA1778
Date: 2014-11-04 10:54:50 UTC
From: John Simon
Topic: 164 Message: 172

Well the RA1779 is now operational. I had a feeling that it might be the switching diode or the crystal. It turned out that the wrong crystal was in the USB slot. About the only thing in common with the RA1779 is that it fitted into the pin out and bolt holes. Other than that it might have been just a block of chocolate as it certainly wasn't anything like a USB crystal.

She now sounds like a real receiver and is sitting monitoring the WSPR 630 band.

73, John de VK2XGJ
I use the original form of social networking.
Amateur Radio.

From: mailto:RA1778@yahoogroups.com
Sent: Friday, September 26, 2014 3:06 PM
To: ra1778@yahoogroups.com
Subject: [RA1778] RA1779 question

Sorry if I am in the wrong area but I have to ask.

I don't think there is much difference between the 1778 and 1779.

My RA1779 receives well in LSB but the lack of audio when I switch to USB
makes the receiver just about useless. I have the manual and I feel it
have something to do with the USB crystal or the switching diode.
Comments please.

73, John de VK2XGJ
I use the original form of social networking.
Amateur Radio.

173. Re: [RA1778] RA1772 option numbers

Yahoo group: RA1778
Date: 2014-11-06 11:13:48 UTC
From: John Ellerton
Topic: 167 Message: 173

No, Bob. I did lose all my hair at a later date, whilst working on
some complex radio systems!
Happily it recovered, and I have kept my greyless hair until now - at
77 is doesn't look bad.!
Not bad for a second helping, then!!!
Thanks for the enquiry, and enjoy the radio.
John
On 2 Nov 2014, at 22:01, bobwarrin2009@... [RA1778] wrote:

> Hi John G3NCN.
>
> Thanks for your reply, after 40 years, I wouldn't expect you to
> remember all the design details, so I appreciate your suggestions.
> I remember a story about one of the design team that lost most of
> his hair while working out the cable form, I'm not surprised
> really.....it wasn't you was it? :-)
>
> Rgds Bob (UK)
>
>

174. Racal RA1781 remote receiver

Yahoo group: RA1778
Date: 2015-01-04 11:53:10 UTC
From: g3vuf@...
Topic: 109 Message: 174

Greetings to all,
I have a receiver less the remote head or cables bought as possible spares for my RA1772.Over the holidays I have powered up the unit and found that all votages and reference signals are present audio and agc are adjustable from pre sets.A 1.4 Mhz test signal applied to the filter board passed to AF .
Has anyone a circuit or information on the receiver?.I would like to put it to some use.
Regards Gavin

175. RA1772 mystery component...

Yahoo group: RA1778
Date: 2015-01-05 20:48:35 UTC
From: zs6kat@...
Topic: 175 Message: 175

Dear All,

I am busy restoring an RA1772 (not the memory version) that has power supply issues and during my investigations found a totally unrecognisable charred component on the RF board PM582. Unfortunately when I bent it over to gather further details, it simply fell apart between my fingers.

I tried identifying the mystery component by reading up the service manual, but strangely there is no mention made of it whatsoever.

I have subsequently taken a photo of the RF board and circled the position from where the component was extracted.

I would be much obliged if someone could please tell me what is supposed to be soldered into the now empty position and what the component is used for.

Thank you in advance for your assistance.

Kind Regards

Kevin Turner

ZS6KAT

176. Re: RA1772 mystery component...

Yahoo group: RA1778
Date: 2015-01-05 22:42:05 UTC
From: enriqueeeeee2001@...
Topic: 175 Message: 176
Attachments: 1 described; binary payloads are missing from this source WARC

Hello Kevin,

I have just taken a photo of my Racal 1772, I can not see any component in C33 point but I realize that yours has been modified, see the differences.

Before putting on *bay a Racal 1772 I have one for sale, it has the following filters: 8 Khz, 3 Khz, 2,7 Khz, 1,24 Khz, 0,4 Khz and 0,1Khz (carrier). AFC board included.
I would add three top grade brand new Epcos Sikorel capacitors and a Phillips for replacing the ones in the FA.

The only failure that it has it is that the 'out of lock' led indicator does not work.

Also I will add , in PDF, all manuals and several diagrams-schemes of service.

Please, mail me off the list if anybody is interested. Sorry,EU countries only.

Kind Regards.

177. Re: RA1772 mystery component...

Yahoo group: RA1778
Date: 2015-01-06 05:58:05 UTC
From: zs6kat@...
Topic: 175 Message: 177

Hello Enrique,
Thank you for taking the time to help me. I was very surprised to read your comment about the "modification".
I will have to find out what this modification entailed. Failing that I will remove it as best as possible. On the bright side, at least the original parts of the radio appear to remain unaffected.
Kind Regards Kevin

178. Re: RA1772 mystery component...

Yahoo group: RA1778
Date: 2015-01-06 08:50:38 UTC
From: Helge Kyndbo
Topic: 175 Message: 178

Hello,
As I can see on your picture, this component is C33 an red top on a trimmer capasitor.
My time is bad this morning, so will return, when I find a rf bord.
helge / denmark

179. Re: RA1772 option numbers

Yahoo group: RA1778
Date: 2015-03-08 09:00:26 UTC
From: malonemark49@...
Topic: 167 Message: 179

Hi Bob

Im an happy owner of this fantastic receiver! better than 1792! I love it! the audio is fantastic clear and crisp!
CIao

CLAudio (Glasgow)

180. RA-1778 Power Supply Dead

Yahoo group: RA1778
Date: 2015-05-24 13:48:33 UTC
From: graham.ogle@...
Topic: 180 Message: 180

Hello,

Turned my 1778 on the other day after a long break and nothing happened. The meter switch does not show any voltages on the various lines. Further investigation reveals that the voltage regulators would appear to be dead. The plastic leg insulators are all discoloured, so I'm assuming that these regulators get hot in operation. However, before I start replacing regulators, I'm wondering if any of the capacitors on the regulator board are tantalums? I don't have a parts list with the manual so don't know.

Has anyone had this problem with their 1778 please?

The ua723 regulators are marked ua723HMG and reading around, for military use, they are rated to 150C rather than the commercial 75C. Does anyone know where I can get replacement regulators from please?

Thanks in advance for any help and information,

Graham
GW8RAK

181. Re: RA-1778 Power Supply Dead

Yahoo group: RA1778
Date: 2015-05-24 18:36:10 UTC
From: d.bobbett@...
Topic: 180 Message: 181

Personally, I'd start by checking TR3 on the PSU PCB. This is the pass transistor for the +20v line and I have come across several of these which fail due to iffy solder joints - usually the transistor itself is fine.

Because the +20v line acts as a reference for the other regulators, a defective TR3 takes all the other voltages with it, so at the very least it is a good place to start.

It is worth removing TR3 entirely and thoroughly cleaning its legs before re-soldering - hopefully that should do the trick.

73 de David, G4IRQ

182. Re: RA-1778 Power Supply Dead

Yahoo group: RA1778
Date: 2015-05-25 09:03:05 UTC
From: graham.ogle@...
Topic: 180 Message: 182

David,
Thank you very much for the pointer. I had meant to see if the PSU lines were dependent on anything else, but then forgot all about as I put fingers to keyboard. The TR3 pass transistor has either been replaced before or has certainly been re-soldered already. However, I've now traced the fault to the bridge rectifier on that line (D3) which is defective. Replacement with another rectifier, albeit larger and not a physical replacement, gets the set working again. I'll have to try to source a suitable size rectifier.
Now to get the tuning mechanism working correctly.

Thanks for your help,

73
Graham
GW8RAK

183. Re: Racal RA1781 remote receiver

Yahoo group: RA1778
Date: 2015-05-29 09:19:25 UTC
From: g3ncn@...
Topic: 109 Message: 183

Hi Gavin. This 1781 receiver was developed as a remote controlled receiver for MOD. There is a long serial word (about 56 bits) needed to control it, but I cannot remember the detail of it. A great deal of trouble was taken to design the IF and AF stages for minimum distortion. The only way to use this receiver would be to completely rewire the control system using a RA1778 front panes and digital controls.
The IF boards might be useful in another receiver like 1772. I led the design team for the signal paths for this receiver - as all the 1770 / 1780 series, but that was about 1970 to 1975 approximately!
Unless you can obtain the Racal handbook for the 1781, it ain't going to be easy!
John Ellerton, G3NCN

184. Re: [RA1778] Re: Racal RA1781 remote receiver

Yahoo group: RA1778
Date: 2015-05-29 09:52:43 UTC
From: mark malone
Topic: 109 Message: 184

Hi John

I recently bought a Racal 3701

What do you think about this receiver? Who was the mail user of this class receivers? As far as I know was the Royal navy...

I own an German Hagenuk 1001 m hf receiver and is similar on quality and clear voice to racal receiver 3701...

Any thoughts?

Br

Mark

Sent from Yahoo Mail on Android

From:"g3ncn@... [RA1778]" <RA1778@yahoogroups.com>
Date:Fri, 29 May, 2015 at 10:19
Subject:[RA1778] Re: Racal RA1781 remote receiver

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Unless you can obtain the Racal handbook for the 1781, it ain't going to be easy!

John Ellerton, G3NCN

185. Re: [RA1778] Re: Racal RA1781 remote receiver

Yahoo group: RA1778
Date: 2015-05-29 15:08:51 UTC
From: Casy_ch
Topic: 109 Message: 185

Hallo Mark

Since a number of years I have an RA-3702. Amongst a number of pro rx it is the best of all. On top, if not quite handy, one can set the passband through the menu which is not the case on pro rx. That is the last rx I would sell, too good.

Jean-Claude, HB3YDH

Am 29.05.2015 um 11:52 schrieb mark malone malonemark49@... [RA1778]:
> Hi John
> I recently bought a Racal 3701
> What do you think about this receiver? Who was the mail user of this
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> I own an German Hagenuk 1001 m hf receiver and is similar on quality
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186. Re: [RA1778] Re: Racal RA1781 remote receiver

Yahoo group: RA1778
Date: 2015-05-29 18:35:55 UTC
From: mark malone
Topic: 109 Message: 186

Hi Jean

thanks for your email! I bought recently a Racal 3701 but I had to reset the unit on " processor" module since then I lost the filter settings (LC Option)I tried to re-enter manually via keypad all the settings as stated on Service manuals , but IM not sure about the figures with - do you know how to enter it on receiver?I think that I should use the button -/+ in order to enter the figures with negative - numbers... unfortunately the manual is not very clear about this procedureA part from this small issue the receiver works fine ! I used in the past the Racal 1772 and Racal 1792 but off course this receiver 3701 is much advanced comapred the 1792!But to be honest also the other mine receiver Hagenuk RX 1001 M works very well and I think in terms of clarity on SSB is slightly better than Racal 3701!
MY next purchase will be a Racal 37XX wirth DSP processor but is very rare to find also here in UK .
Please let me know whether if you ever reset the Racal 3701 and reloaded manullay all the filters settings for the Bassbands etc

Thanks so much!
Danke

73

Mark

On Friday, 29 May 2015, 16:08, "Casy_ch casy_ch@... [RA1778]" <RA1778@yahoogroups.com> wrote:

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|

187. Re: [RA1778] Re: Racal RA1781 remote receiver

Yahoo group: RA1778
Date: 2015-05-30 07:45:09 UTC
From: Casy_ch
Topic: 109 Message: 187

Hallo Mark

Unfortunately I had never to enter the filter settings. Does not it find them itself when you run BITE like the RA-1792 does?

Looking into the *operator *manual the bandwidth is to be entered with BW+ and BW- repeatidly pressed until the wanted bandwidch is reached and then memorize it. Look into the operator manual starting from page 4-8. By the way did you contact Telford Electronics (Mark)? They used to sell Racal rigs and have a very knowledgeable man for the service.

Here I have had quite a number of pro receivers in the past. I am left with an Eddystone 6200, an RA-1792 with MA-2232, an RA-6793, an RA-3712 and a SRT CR-91 which I want to sell. I have a broadband amplifier to feed up to 12 receivers from the same antenna and a DIY loudspeakers change-over switch. It is always difficult to say which receiver is the best. I am just a fan of Racal UK.

I have never heard of a Racal series 37XX with DSP. I would not know which model it is.

73 de Jean-Claude

Am 29.05.2015 um 20:35 schrieb mark malone malonemark49@... [RA1778]:
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> thanks for your email! I bought recently a Racal 3701 but I had to
> reset the unit on " processor" module since then I lost the filter
> settings (LC Option)
> I tried to re-enter manually via keypad all the settings as stated on
> Service manuals , but IM not sure about the figures with - do you know
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> MY next purchase will be a Racal 37XX wirth DSP processor but is very
> rare to find also here in UK .
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> Please let me know whether if you ever reset the Racal 3701 and

> reloaded manullay all the filters settings for the Bassbands etc
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> Thanks so much!
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> Danke
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188. Re: [RA1778] Re: Racal RA1781 remote receiver

Yahoo group: RA1778
Date: 2015-05-30 08:28:21 UTC
From: mark malone
Topic: 109 Message: 188

Hi Jean Claude
Thanks for your email , my receiver works fine it just not sure if I done the right think when I had to reset the receiver due to a block of the main tuning knob, the only solution was to reset the processor module, there is a procedure (see small switch on processor module) that reset the receiver to default settings.As this receiver can have different options modules on some cases you need to re enter on internal setting menus the right settings based on whitch If filter module you got fitted on your receiver, on my case my IF filter module got a small label (LC) then if you check on service Racal manual there is an " appendix " at end of service manual whitch tell you the filter settings you must be enter on your receiver .When I re entered all sequences numbers via front Keypad some figures numbers was set with a - (negative) in front of a number , so I assumed that for those - number's I should press first the button +/- and then enter the numbers, but unfortunately on service manual is not stated what to do when you have to enter a number figures with a - (negative) what is the the right way to enter it on receiver.Again , the receiver works fine , but I always think that maybe Ive done the wrong set up, I sent a couples of email to Mark (Telford Elect) but he never replied back to me..even when I was ready to buy another Racal 3701! strange way to deal with customers....anyway I was looking to buy the latest racal RA 3791 DSP but is fairly rare to buy in UK and elsewhere and when you find one can be very expensive as this was the last model produced by Racal (unfortunately) .I dont know the quality of RA 3791 DSP but for sure is a step ahead compared with the Racal 3701 .I stopped to wasting my time buying " toys" like Icom , Kenwood etc since last year I focused to buy only " pro" military receivers , I must admit that I love racal products..but dont forget Hagenuk they made some great pro receivers , I bought mine RX 1001 M for only 250 £ !! and is like new! the eletronics are second to none and is all modular ! the only bad thinks about this German receiver is that is quite hard at beginning to use it as all commands must be entered via keypad....not very user friendly ....
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Mark

On Saturday, 30 May 2015, 8:45, "Casy_ch casy_ch@... [RA1778]" <RA1778@yahoogroups.com> wrote:

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Thanks so much!
Danke

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Any thoughts?
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189. Re: [RA1778] Re: Racal RA1781 remote receiver

Yahoo group: RA1778
Date: 2015-06-01 07:43:37 UTC
From: Casy_ch
Topic: 109 Message: 189

Hi Mark

In SSB reception on the RA-3712 there is a passband tuning which is not very practical as you have to go through the menu to play with the turning knob. Press <Menu> and then <M4>. This is only for SSB reception and need a filter of less than 2.7KHz.

When you say <toys> I am not sure that you have tried the right rigs. Amongst others I have an Icom IC-R75 and it holds the comparison with all pro rx I have or have had. Funny enough the R75 is only sold in the USA but not in Europe. Also I have a Yeasu FT-990 reception of which is extremely good and reach the pro rx signals without problem. Another one is the FT-1000MP-Mark-V (not the FT-1000, neither the FT-1000MP) and the reception as well as the filter possibilities are more than good and nice. Most Pro or military rigs that one can afford are old and have been made for point to point traffic. The lack of bandpass tuning, NB, Notch, etc is often a problem to receive the station properly. Some say these are gadgets, but I do not think so for the rigs I mentionned.

73 de Jean-Claude

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>
> Thanks for your email , my receiver works fine it just not sure if I
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> module, there is a procedure (see small switch on processor module)
> that reset the receiver to default settings.
> As this receiver can have different options modules on some cases you
> need to re enter on internal setting menus the right settings based on
> whitch If filter module you got fitted on your receiver, on my case my
> IF filter module got a small label (LC) then if you check on service
> Racal manual there is an " appendix " at end of service manual whitch
> tell you the filter settings you must be enter on your receiver .
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190. Re: [RA1778] Re: Racal RA1781 remote receiver

Yahoo group: RA1778
Date: 2015-06-01 17:35:01 UTC
From: malonemark49@...
Topic: 109 Message: 190

Hi Jean Claude

thanks for your post, I had an Icom R75 with DSP module and I can tell you that this receiver was average compared to other better receivers like JRC 525/535 I tried a few on last few years Commercial & MilitaryHf receivers.. I can tell that one of the best receiver was the Racal 1772! the audio clarity was so good even compared with the Racal 3701 , I sold it 2 week ago in order to buy the last Racal 3701 .
I think that the commercial/hobbist Hf receivers never come close with an military Hf receiver as they has been created to comply with the strict military specs requirements in terms of sensitivy , quality of components used , built to last selectivity etc...
After 25 years of Hf radio experiences I will never go back for an Icom/ Aor / Kenwood Yeasu.
Id like to buy an AEG Telefunken E 1800 Hf receiver or R & S but they are still rare to find and quite expensive to buy!

I will keep for now the Racal 3701 is working fine but I'm not impressed as I said the Hagenuk RX 1001 M superseed on Audio clarity the Racal 3701 ... I can be wrong but this is my judgment on both receivers .

73

Mark

191. RACAL 3701 FILTER SETTINGS

Yahoo group: RA1778
Date: 2015-06-07 09:02:21 UTC
From: malonemark49@...
Topic: 191 Message: 191

Dear All

I own a racal 3701 and I reset the receiver via processor module and I lost all filter settings that I should now re-install via main front keypad

Do you remember how to do it? and apart from the filter settings what other settings I should re- enter manually?

I have fitted the option filter LC and according to the Racal Maintanance manual (filter configurations data for IF/AF module) some figures must be re- enter with - (minus) followed by the relevant setting numbers..

Do you know how to do it ? I think that I should use the button +/- but on manual is not stated how to enter the figures numbers in negative (-)

Thanks

Mark

192. RA1778 Value? For Sale?

Yahoo group: RA1778
Date: 2015-06-16 20:55:14 UTC
From: graham.ogle@...
Topic: 192 Message: 192

Hello,

I am having to downsize my shack and my RA1778 has to go. As far as I can see, they don't come on the market very often, so I'm at a loss as to what it is worth. One was for sale for £650 last year, but that's the only one I've come across and don't know if it sold. Can someone give me some idea of what it is worth please?

If anyone on here is interested in it, then email me direct.

Thanks for your help,

73
Graham
GW8RAK

193. Re: [RA1778] RA1778 Value? For Sale?

Yahoo group: RA1778
Date: 2015-06-17 15:59:44 UTC
From: Terrence Harvey
Topic: 192 Message: 193

Hello Graham;
     Are you familiar with Toronto Surplus. They have (or more?) for sale as follows.

Racal RA6778C HF Radio Receiver, FULLY TESTED AND GUARANTEED! sku1304

| Add to Wishlist | Ask a Question | View Details | $1,900.00 |

Regards,
TerryRA6772
  From: "graham.ogle@... [RA1778]" <RA1778@yahoogroups.com>
To: RA1778@yahoogroups.com
Sent: Tuesday, June 16, 2015 1:55 PM
Subject: [RA1778] RA1778 Value? For Sale?

  Hello,

I am having to downsize my shack and my RA1778 has to go. As far as I can see, they don't come on the market very often, so I'm at a loss as to what it is worth. One was for sale for £650 last year, but that's the only one I've come across and don't know if it sold. Can someone give me some idea of what it is worth please?

If anyone on here is interested in it, then email me direct.

Thanks for your help,

73
Graham
GW8RAK

194. Re: RA1778 Value? For Sale?

Yahoo group: RA1778
Date: 2015-06-26 09:42:51 UTC
From: d.bobbett@...
Topic: 192 Message: 194

In the UK, they seem to sell for quite a wide range of prices. From memory, over the last 5 years or so they have gone for anything between £350 and (exceptionally) £750 for a decent example.

I don't know whether it is an old wives tale, but some people pick a date either side of payday as buyers are feeling flush. Others reckon prices are better as you get towards autumn and buyers minds turn towards indoor activities again as the nights draw in.

Personally, I think that there is an awful lot of luck involved, but something in the region of £450 sounds about right.

Good luck!

David, G4IRQ

195. Re: [RA1778] Re: RA1778 Value? For Sale?

Yahoo group: RA1778
Date: 2015-06-26 17:07:34 UTC
From: Enrique Fernandez García
Topic: 192 Message: 195

I remember seeing a pair of 1778,s , very good condition, on ebay long time ago.
  I can remember they nearly reached 900 Euros or more each., full working condition and fair cosmetically.
   I would like to sell my Racal 1772, I see that the prices on ebay are a bit more expensive. It would include all manuals, lot of diagrams (pdf) and three top grade electrolytic Epcos Sikorel and a Philips capacitors for replacing the ones in the PS.It has developped a fault, the 'out of lock' does not work. Before placing it on ebay I would ask for 650 Euros plus shipping cost. If interested, please mail me off the list.
  Kind Regards.
  Carlos, EA2DSU
De: "d.bobbett@... [RA1778]" <RA1778@yahoogroups.com>
Para: RA1778@yahoogroups.com
Enviado: Viernes 26 de junio de 2015 11:42
Asunto: [RA1778] Re: RA1778 Value? For Sale?

<!--#yiv2880139228 #yiv2880139228 .yiv2880139228ygrp-photo-title{clear:both;font-size:smaller;height:15px;overflow:hidden;text-align:center;width:75px;}#yiv2880139228 div.yiv2880139228ygrp-photo{background-position:center;background-repeat:no-repeat;background-color:white;border:1px solid black;height:62px;width:62px;}#yiv2880139228 div.yiv2880139228photo-title a, #yiv2880139228 div.yiv2880139228photo-title a:active, #yiv2880139228 div.yiv2880139228photo-title a:hover, #yiv2880139228 div.yiv2880139228photo-title a:visited {text-decoration:none;}#yiv2880139228 div.yiv2880139228attach-table div.yiv2880139228attach-row {clear:both;}#yiv2880139228 div.yiv2880139228attach-table div.yiv2880139228attach-row div {float:left;}#yiv2880139228 p {clear:both;padding:15px 0 3px 0;overflow:hidden;}#yiv2880139228 div.yiv2880139228ygrp-file {width:30px;}#yiv2880139228 div.yiv2880139228attach-table div.yiv2880139228attach-row div div a {text-decoration:none;}#yiv2880139228 div.yiv2880139228attach-table div.yiv2880139228attach-row div div span {font-weight:normal;}#yiv2880139228 div.yiv2880139228ygrp-file-title {font-weight:bold;}#yiv2880139228 --> <!--#yiv2880139228 #yiv2880139228ygrp-mkp {border:1px solid #d8d8d8;font-family:Arial;margin:10px 0;padding:0 10px;}#yiv2880139228 #yiv2880139228ygrp-mkp hr {border:1px solid #d8d8d8;}#yiv2880139228 #yiv2880139228ygrp-mkp #yiv2880139228hd {color:#628c2a;font-size:85%;font-weight:700;line-height:122%;margin:10px 0;}#yiv2880139228 #yiv2880139228ygrp-mkp #yiv2880139228ads {margin-bottom:10px;}#yiv2880139228 #yiv2880139228ygrp-mkp .yiv2880139228ad {padding:0 0;}#yiv2880139228 #yiv2880139228ygrp-mkp .yiv2880139228ad p {margin:0;}#yiv2880139228 #yiv2880139228ygrp-mkp .yiv2880139228ad a {color:#0000ff;text-decoration:none;}-->

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Personally, I think that there is an awful lot of luck involved, but something in the region of £450 sounds about right.

Good luck!

David, G4IRQ

196. RA 1772's up for grabs - spares or repair

Yahoo group: RA1778
Date: 2015-06-29 15:33:54 UTC
From: d.bobbett@...
Topic: 196 Message: 196

I have a couple of non-working RA1772 radios which are free to a couple of good homes. Please note that these must be collected from Milton Keynes!

Radio A - Was working, but I suspect the TR3 transistor on the PSU has gone dry joint as the supply lines have all gone down. Has a very 'hummy' mains transformer but is complete.

Radio B - Not working and complete except for the mains tranformer, which has been removed because that was incredibly 'hummy'. I still have the transformer if wanted.

I can't think of a fairer way to do this, so the first reply gets Radio A and the second reply get Radio B. If I only get one reply, they will be offered both radios as I need the space.

73 de David, G4IRQ

197. RE: [RA1778] RA 1772's up for grabs - spares or repair

Yahoo group: RA1778
Date: 2015-06-29 15:59:55 UTC
From: Vince Maddex
Topic: 196 Message: 197

Hello David,

I am an avid Racal collector and an ex employee of Racal.
I would be very pleased to give the radios a good home.

Best wishes

Vince Maddex

G8YPK

Sent from Yahoo Mail for iPad (https://yho.com/footer0)

At 29 Jun 2015 16:33:54, d.bobbett@tiscali.co.uk [RA1778] wrote:

I have a couple of non-working RA1772 radios which are free to a couple of good homes. Please note that these must be collected from Milton Keynes!

Radio A - Was working, but I suspect the TR3 transistor on the PSU has gone dry joint as the supply lines have all gone down. Has a very 'hummy' mains transformer but is complete.

Radio B - Not working and complete except for the mains tranformer, which has been removed because that was incredibly 'hummy'. I still have the transformer if wanted.

I can't think of a fairer way to do this, so the first reply gets Radio A and the second reply get Radio B. If I only get one reply, they will be offered both radios as I need the space.

73 de David, G4IRQ

198. Re: RA 1772's up for grabs - spares or repair

Yahoo group: RA1778
Date: 2015-06-29 16:02:53 UTC
From: john@...
Topic: 196 Message: 198

Hello David,

If these radios have not already gone, can I add my name to the list pse ?

John

199. RE: [RA1778] RA 1772's up for grabs - spares or repair

Yahoo group: RA1778
Date: 2015-06-29 16:10:07 UTC
From: d.bobbett@...
Topic: 196 Message: 199

Hi Vince,

Yours was the first e-mail to arrive on the group - so you get Radio A. Perhaps you could PM me to arrange times and dates?

Radio B will go to the next person to get in touch.

Regards,

David, G4IRQ

200. Re: RA 1772's up for grabs - spares or repair

Yahoo group: RA1778
Date: 2015-06-29 16:10:48 UTC
From: john@...
Topic: 196 Message: 200

David,

I'm having problems sending mail via the Group, so my apologies...

John

201. Re: RA 1772's up for grabs - spares or repair

Yahoo group: RA1778
Date: 2015-06-29 16:20:01 UTC
From: d.bobbett@...
Topic: 196 Message: 201

Hi John,

Second message to arrive on the group so you getr Radio B. Perhaps yo could PM me to arrange the collection?

73 de David, G4IRQ

202. Re: RA 1772's up for grabs - spares or repair

Yahoo group: RA1778
Date: 2015-06-29 17:01:14 UTC
From: d.bobbett@...
Topic: 196 Message: 202

Both radios now spoken for - thanks for all the interest!

73 de David, G4IRQ

203. Re: [RA1778] RA 1772's up for grabs - spares or repair

Yahoo group: RA1778
Date: 2015-06-29 19:30:40 UTC
From: John Raymond Dore
Topic: 196 Message: 203

Yes please
John GW3XPK
We know each other re 1778

On 29 June 2015 at 16:33, d.bobbett@... [RA1778] <
RA1778@yahoogroups.com> wrote:

>
>
> I have a couple of non-working RA1772 radios which are free to a couple of
> good homes. Please note that these must be collected from Milton Keynes!
>
>
> Radio A - Was working, but I suspect the TR3 transistor on the PSU has
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> Radio B - Not working and complete except for the mains tranformer, which
> has been removed because that was incredibly 'hummy'. I still have the
> transformer if wanted.
>
>
> I can't think of a fairer way to do this, so the first reply gets Radio A
> and the second reply get Radio B. If I only get one reply, they will be
> offered both radios as I need the space.
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> 73 de David, G4IRQ
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204. RE: [RA1778] RA 1772's up for grabs - spares or repair

Yahoo group: RA1778
Date: 2015-07-09 21:35:23 UTC
From: vincemaddex@...
Topic: 196 Message: 204

Hi David,

I have been emailing you to arrange for the collection but have not had any replies from you.
I was hoping to have collected tonight. Without getting a reply from you, sadly I missed the opportunity.

My only chance now before you're request deadline is this Monday.

I hope you get this message via the group and I can pick up from you this Monday.

Kind regards

Vince

205. RE: [RA1778] RA 1772's up for grabs - spares or repair

Yahoo group: RA1778
Date: 2015-07-10 07:13:45 UTC
From: d.bobbett@...
Topic: 196 Message: 205

Hi Vince,

I think one or other of us is having e-mail issues - I replied to all your msgs, but it seems you didn't get them. I tried again last night and got some weird message about a blocked Yahoo e-mail accuont, so I'm not sure what's going on.

I have a 'spare' e-mail address so I will try changing to that on my 1778 account and then post on here when it's done.

73 de David

206. RE: [RA1778] RA 1772's up for grabs - spares or repair

Yahoo group: RA1778
Date: 2015-07-10 07:20:24 UTC
From: d.bobbett@...
Topic: 196 Message: 206

Hi Vince,

OK, I have temporarily changed my e-mail address on here - give it a go and see if that works!

PS Would have been easier to use 80m ;-)

73 d e David, G4IRQ

207. Re: RA 1772's up for grabs - spares or repair

Yahoo group: RA1778
Date: 2015-07-21 15:42:14 UTC
From: vincemaddex@...
Topic: 196 Message: 207

Hi David, Thank you for donating the RA1772 to me. I look forward to getting the chance to have a look at it and getting it up running again.

Thanks once again.

Vince

208. ALE USER 2673 USB 20.00 UK TIME

Yahoo group: RA1778
Date: 2015-10-08 19:20:42 UTC
From: malonemark49@...
Topic: 208 Message: 208

Hi Guys

I heard this station tonight

2015-10-08 18:58:25] [NORMAL
MODE][TO][ZPR][TO][ZPR][TO][ZPR][TO][ZPRI][TO][ZPRI][TIS][ZLST][EOM]

DO you know the user?

Thanks

Mark

209. Preventative Measures with the RA1778

Yahoo group: RA1778
Date: 2015-10-09 08:44:25 UTC
From: b.kneller@...
Topic: 209 Message: 209

I would like your views on preventive measures or experience of failures on the RA1778 as I would like to prevent serious ones from happening. Also any advice on long term care would be useful

Thanks in anticipation

Brian Kneller

G8BAQ

210. WHICH IS THE BEST FREQ BOOK? ANY ADVISE?

Yahoo group: RA1778
Date: 2015-10-17 10:19:25 UTC
From: malonemark49@...
Topic: 210 Message: 210

Dear all

I'm in the process to buy a new Freq Book apart from the old Klingenfuss books
I saw that there is another 2 books recently updated 2015/2016 called :

Spezial-Frequenzliste 2015/16

and

Frequency Handbook for Radio Monitoring
Witch is the best more updated and accurate on digital modes and frequesncies? As both books written in German are they quite understandable from not German speakers?

Thanks for any good advice!

73

Mark (Sunny Scotland ;-)

212. Re: [RA1778] jw: (1)

Yahoo group: RA1778
Date: 2015-12-10 15:33:50 UTC
From: David Bobbett
Topic: 211   Message: 212

Hi Enrique,

You may have a virus, I have blocked the link because it is nothing to
do with radio - just advertising for diet stuff.

You might want to do a virus scan :-)

73 de David, G4IRQ

On 10/12/2015 14:17, Enrique Fernandez García enriqueeeeee2001@...
[RA1778] wrote:
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> http://alkhaleej-hotel.ly/jkjyvfu.php
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> -----------------------------
> Love conquers all things; let us too surren der to Love.

> Randall Skillicorn
>

213. RE: RACAL RA6778c

Yahoo group: RA1778
Date: 2016-01-03 17:39:22 UTC
From: rkinney88@...
Topic: 114 Message: 213

Curious if you ever scanned the 6775 manual. I have one that I acquired several years ago, but have not found a manual for it. If you have not scanned it, I am open to options for doing it, i.e. buying the manual, borrowing it, etc.

Bob

214. New member, old Racal collector

Yahoo group: RA1778
Date: 2016-02-02 16:52:14 UTC
From: Dan Rae
Topic: 214 Message: 214

Thank you for having me.

Apart from one RA1778 I also have around:

1 RA17C-12 (bought as a wreck with "PCBs removed" a bizarre Canadian military surplus procedure)
1 RA6117 (US made RA117 but with some differences)
1 RA1217 (brought back from the dead like the C12)
1 RA6217
Several RA1792s
Several RA6790/GM
1 RA6778A (quite unlike the 1778 btw, but was the first F8 microprocessor use for control)
1 RA1772 the one that started me on the downward slope 25 years ago. It now has a dual switched roofing filter first mixer board, 15 and 1.5 kHz BW, so Racal got there first.
1 RA6772E (nice in that it uses a synthesised BFO)
1 RA1795
2 TRA931 and others I may have forgotten...

I also have a lot of odd boards that came indirectly from Maryland, mostly 6772 vintage, if anyone needs anything.

73 - Dan

ac6ao / g3ncr

215. Re: New member, old Racal collector

Yahoo group: RA1778
Date: 2016-02-02 18:49:31 UTC
From: Helge Kyndbo
Topic: 214 Message: 215

Dan,

Where can I find more info on RA 1772 dual switched roofing filter first mixer board, 15 and 1.5
kHz BW, so Racal got there first.

helge

216. Re: [RA1778] Re: New member, old Racal collector

Yahoo group: RA1778
Date: 2016-02-02 19:15:09 UTC
From: Dan Rae
Topic: 214 Message: 216

On 2/2/2016 10:49 AM, Helge Kyndbo kyndbo@... [RA1778] wrote:
> Dan,
>
> Where can I find more info on RA 1772 dual switched roofing filter
> first mixer board, 15 and 1.5
> kHz BW, so Racal got there first.
Helge, I've only ever seen the one that I have, which came from an ex-Racal person. I have seen the first mixer boards without the relay and filter fitted which I think were fitted to late 1778s. I will send pictures to the group rather than try it as attachment.

73 - Dan

217. Re: [RA1778] Re: New member, old Racal collector

Yahoo group: RA1778
Date: 2016-02-02 19:20:19 UTC
From: Dan Rae
Topic: 214 Message: 217

and I have another mixer board where the buffer amp in the top left hand corner of the board in the picture is populated, but not the second filter.

218. RA1778 for sale

Yahoo group: RA1778
Date: 2016-05-20 18:54:09 UTC
From: honeyway@...
Topic: 88 Message: 218

I have a Racal RA1778 in generally good condition which has been sitting in the shack for rather too long awaiting restoration. Realistically I don’t think I’m going to get round to it and Madam has put her foot down about too many radios ;-)

So before it goes on eBay I thought I’d offer it here. It's a late model with the preselector and AFC fitted and is in working order – an ideal candidate for a full restoration by a loving owner. I paid £650 for it about a year ago and would like the same. Delivery within the UK may be possible and is greatly preferred but I'm willing to ship if you'll pay the cost.

I also have a Mk 5 RA1792 which needs new displays but is otherwise working and a variety of unused packaged NOS boards for same.

John

GW4FRX

220. Lookig for somebody to take over running this group!

Yahoo group: RA1778
Date: 2017-06-16 09:20:50 UTC
From: d.bobbett@...
Topic: 220 Message: 220

Hi all,

As I have moved on from repairing the 177x group of receivers, I would like to find somebody to replace me as the 'Owner' of this group in order to keep the information pool alive for future 177x users.

It is not a particularly arduous task. Usually there is a small flurry of activity in the autumn when people start thinking of winter hobbies and typically there are around half a dozen membership requests through the year.

I have set up the group as a 'closed' group to avoid the usual spam and rubbish which seem to plague open groups and I think I have had only one dubious member since starting out. So it is all quite simple.

If you are interested in running this group please get in touch. Perhaps I should also mention that more than one person can be a group owner, so it is possible to share the task if anybody would like to do that.

As for me, I will probably come back to radio in a few years, but for now I have a rather elderly boat to refurbish so that, and the bit of flying that I do, keeps me busy.

73 de David (G4IRQ)

221. Re: [RA1778] Lookig for somebody to take over running this group!

Yahoo group: RA1778
Date: 2017-06-17 16:44:37 UTC
From: John Raymond Dore
Topic: 220 Message: 221

Hi David,
You will recall that we have met.
I currently own 4 RA1778 receivers.
I am not particularly anxious to run the RA1778 group but I do think it is important that it continues.
I am linux based and do not wish to be Windows based so it will depend on how the yahoo group is set up.
I do not expect this to be a problem.
I have just successfully logged in after many months of not doing so.
Another aspect is age as you can guess from my call sign.
I delayed doing my morse test for 9 years so really should have been GW3N**. It only took a couple of months to get to 16 wpm.
On the other hand younger persons may not have an interest in these Racal sets.
Let me know what you think.
73 John GW3XPK

On 16 June 2017 at 10:20, d.bobbett@tiscali.co.uk [RA1778] <RA1778@yahoogroups.com> wrote:

>
>
> Hi all,
>
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